

=> fil reg
FILE 'REGISTRY' ENTERED AT 15:08:20 ON 12 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2009 HIGHEST RN 1182870-06-9
DICTIONARY FILE UPDATES: 11 SEP 2009 HIGHEST RN 1182870-06-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

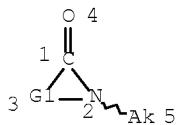
TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

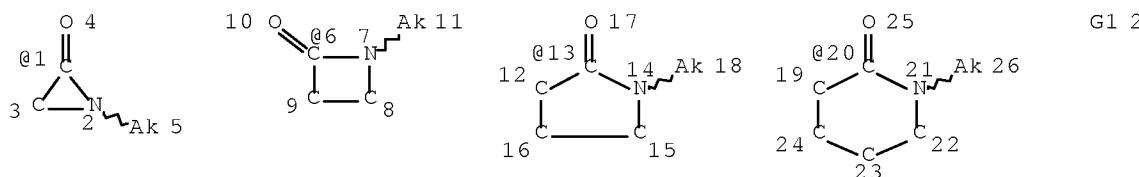
=> d que stat 113
L2 STR



REP G1=(1-4) C
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 5
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE
L3 31684 SEA FILE=REGISTRY SSS FUL L2
L10 STR



Page 1-B
VAR G1=1/6/13/20

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 5
CONNECT IS E1 RC AT 11
CONNECT IS E1 RC AT 18
CONNECT IS E1 RC AT 26
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 5
GGCAT IS UNS AT 11
GGCAT IS UNS AT 18
GGCAT IS UNS AT 26
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I
NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE

L12 12637 SEA FILE=REGISTRY SUB=L3 SSS FUL L10
L13 6132 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON L12 NOT NR>1

=> d his

(FILE 'HOME' ENTERED AT 14:27:45 ON 12 SEP 2009)

FILE 'REGISTRY' ENTERED AT 14:28:08 ON 12 SEP 2009
ACT PEZ796AU/A

L1 7 SEA FILE=REGISTRY SPE=ON ABB=ON PLU=ON (134367-40-1/BI

ACT PEZ796/A

L2 STR
L3 31684 SEA FILE=REGISTRY SSS FUL L2

L4 1 S L1 AND L3

FILE 'LREGISTRY' ENTERED AT 14:29:23 ON 12 SEP 2009
L5 STR L2

FILE 'REGISTRY' ENTERED AT 14:32:21 ON 12 SEP 2009
L6 50 S L5 SSS SAM SUB=L3
L7 21467 S L5 SSS FUL SUB=L3
SAV L7 PEZ796S1/A
L8 4 S L1 AND PMS/CI
L9 380939 S PACR/PCT
L10 STR L5
L11 50 S L10 SSS SAM SUB=L3
L12 12637 S L10 SSS FUL SUB=L3
SAV L12 PEZ796S2/A
L13 6132 S L12 NOT NR>1
L14 4800 S L13 AND PMS/CI
L15 380939 SS L9 OR L9
L16 190940 S L15 RAN=(,187284-17-9)

L17 189999 S L15 NOT L16

FILE 'HCAPLUS' ENTERED AT 14:49:15 ON 12 SEP 2009
L18 5548 S L13(L)PREP+ALL/RL
L19 QUE SALT
L20 647 S L18 AND L19
L21 491493 S L16
L22 83505 S L17
L23 405 S L20 AND L21-22

FILE 'REGISTRY' ENTERED AT 14:56:44 ON 12 SEP 2009
L24 2 S L1 AND L16
L25 173568 S L16 AND ACID/CNS
L26 169240 S L17 AND ACID/CNS

FILE 'HCAPLUS' ENTERED AT 14:58:49 ON 12 SEP 2009
L27 378626 S L25
L28 74528 S L26
L29 8127 S L24
L30 19 S L23 AND L29
L31 360 S L23 AND L27-28
L32 42287 S L4
L33 10 S L30 AND L32
L34 QUE INITIAT?
L35 70 S L31 AND L34
L36 QUE COLLOID OR DISPERS?
L37 19 S L35 AND L36
L38 36 S L30 OR L37
L39 36 S L38 OR L33
L40 28 S L39 AND (PY<=2004 OR PRY<=2004 OR AY<=2004)
L41 52322 S L14
L42 27 S L40 AND L41

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 15:08:29 ON 12 SEP 2009
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 12 Sep 2009 VOL 151 ISS 12
FILE LAST UPDATED: 11 Sep 2009 (20090911/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> d ibib abs hitstr hitind 140 1-28

L40 ANSWER 1 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2009:819652 HCPLUS Full-text
 DOCUMENT NUMBER: 151:132306
 TITLE: Medical adhesive materials having specified fabrics for external usage
 INVENTOR(S): Iida, Norio; Goto, Hajime; Inoue, Kimiko; Kamata, Susumu
 PATENT ASSIGNEE(S): Lion Corp., Japan; NI Teijin Shoji Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 19pp., Division of Jpn. Kokai Tokkyo Koho Appl. 97 358,419.
 CODEN: JTXXFF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4290626	B2	20090708	JP 2004-280061	200409 27 ---
JP 2005154414	A	20050616		
JP 11188054	A	19990713	JP 1997-358419	199712 25 ---
PRIORITY APPLN. INFO.:			JP 1997-358419	A3 199712 25 ---

AB The invention relates to a medical adhesive fabric material suitable for use in a transdermal patch, wound dressing, etc., which stretches well along with the body movement without causing wrinkles and leakage, wherein the material consists of (a) a base fabric with specified properties (fiber d. of 80-220 g/m², etc.) made by three-step both-side knitting of thermoplastic polymer multifilaments, and (b) an adhesive layer containing aqueous adhesive composition containing crosslinked polyacrylic acid or polyacrylate salt.

IT 103719-07-9P
 RL: SFN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (adhesive layer containing; medical adhesive materials having specified fabrics for external usage)

RN 103719-07-9 HCPLUS

September 12, 2009

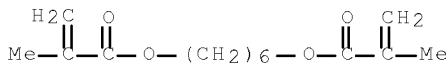
10/591,796

5

CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,6-hexanediyl) ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-ethylhexyl 2-propenoate (CA INDEX NAME)

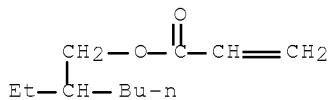
CM 1

CRN 6606-59-3
CMF C14 H22 O4



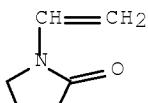
CM 2

CRN 103-11-7
CMF C11 H20 O2



CM 3

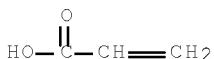
CRN 88-12-0
CMF C6 H9 N O



IT 9003-01-4, Polyacrylic acid 9003-04-7, Sodium polyacrylate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(adhesive layer containing; medical adhesive materials having
specified fabrics for external usage)
RN 9003-01-4 HCPLUS
CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7
CMF C3 H4 O2



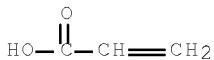
RN 9003-04-7 HCPLUS
 CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C3 H4 O2)x
 CCI PMS

CM 2

CRN 79-10-7
 CMF C3 H4 O2



CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 40

IT 103719-07-98

RL: SPP (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (adhesive layer containing; medical adhesive materials having
 specified fabrics for external usage)

IT 53-86-1, Indomethacin 58-95-7, Tocopherol acetate 76-22-2,
 dl-Camphor 87-28-5, Glycol salicylate 2216-51-5 5104-49-4,
 Flurbiprofen 9003-01-4, Polyacrylic acid
 9003-04-7, Sodium polyacrylate 22071-15-4, KEtoprofen
 22204-53-1, Naproxen

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adhesive layer containing; medical adhesive materials having
 specified fabrics for external usage)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
 RECORD (1 CITINGS)

L40 ANSWER 2 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1154599 HCPLUS Full-text

DOCUMENT NUMBER: 143:423029

TITLE: Aqueous polyvinyllactam dispersions
 produced in protective colloidal media saturated
 with salts

INVENTOR(S): Chrisstoffels, Lysander; Widmaier, Ralf; Stein,
 Stefan; Torres, Llosa Jose Maria; Garcia, Castro
 Ivette

PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Torres Llosa,
 Jose Maria; Garcia Castro, Ivette

SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2005100416	A1	20051027	WO 2005-EP3921	200504 14
<--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004019181	A1	20051208	DE 2004-102004019181	200404 16
<--				
EP 1740625	A1	20070110	EP 2005-759106	200504 14
<--				
EP 1740625	B1	20070912		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
AT 373024	T	20070915	AT 2005-759106	200504 14
<--				
JP 2007532735	T	20071115	JP 2007-507756	200504 14
<--				
US 20070197721	A1	20070823	US 2006-591796	200609 06
<--				
PRIORITY APPLN. INFO.:			DE 2004-102004019181A	200404 16
<--				
WO 2005-EP3921			W	200504 14

OTHER SOURCE(S): MARPAT 143:423029

AB A method for producing water-in-water dispersions of polyvinylactams with a K-value of 30-110 by radically initiated polymn. in aqueous reaction media containing protective colloids and saturated with organic or inorg. salts is described. The prepared aqueous dispersions of polyvinylactams can be used in cosmetics, pharmaceuticals, adhesives, as heat carrier liqs., as well as in formulations for coatings, thinners, adsorbents, binders, ceramics, plastics and metalworking. Thus, a polyvinylactam dispersion was prepared by dissolving 80 g of sodium sulfate in 431 g of deionized water containing 177 g of 22.5 % aqueous solution of hydrolyzed acrylic acid-vinylformamide copolymer

(3:7 ratio) treated with NaOH, adding 5% solution of sulfuric acid till pH of 6.8, heating this mixture at 60° and adding 320 g of N-vinyl-2-pyrrolidone, followed by aqueous solution of 0.5 g of 2,2'-azobis(2-methylpropanimidamide) dihydrochloride (V 50) in 47.5 g of deionized water, keeping at 60° for 3 h, adding an aqueous solution of V 50 (1 g of V 50 in 9 g of deionized water) and heating reaction vessel to 75° for 2 h; the K-value of the obtained polyvinylpyrrolidone dispersion was 77 with viscosity of 1.5 Pas and solids content of 30 %.

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

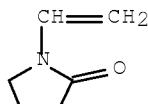
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 9003-04-7, Polyacrylic acid, sodium salt

134367-40-1D, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(protective colloid; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

RN 9003-04-7 HCPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

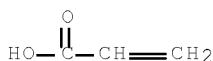
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

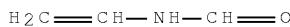
CMF C3 H4 O2



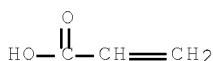
RN 134367-40-1 HCPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5
CMF C3 H5 N O

CM 2

CRN 79-10-7
CMF C3 H4 O2

IC ICM C08F026-10
 ICS C08F002-10; C21D001-60; C09J005-00
 CC 37-3 (Plastics Manufacture and Processing)
 Section cross-reference(s): 55
 ST polyvinyllactam aq dispersion prepn salt satd
 protective colloid media
 IT Lactams
 RL: IMF (Industrial manufacture); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (N-vinyl, polymers; aqueous polyvinyllactam dispersions
 produced in protective colloidal media saturated with salts
)
 IT Disperse systems
 (aqueous polyvinyllactam dispersions produced in protective
 colloidal media saturated with salts)
 IT Adhesives
 Metalworking
 (aqueous polyvinyllactam dispersions produced in protective
 colloidal media saturated with salts for)
 IT Ceramics
 Cosmetics
 Drugs
 Inks
 Thickening agents
 (aqueous polyvinyllactam dispersions produced in protective
 colloidal media saturated with salts in)
 IT Plastics, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (aqueous polyvinyllactam dispersions produced in protective
 colloidal media saturated with salts in)
 IT Adsorbents
 Binders
 Coating materials
 Detergents
 Pigments, nonbiological
 (aqueous polyvinyllactam dispersions produced in protective
 colloidal media saturated with salts in preparation of)
 IT Polymerization

(dispersion, radical; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts by)

IT Salts, uses
RL: NUU (Other use, unclassified); USES (Uses)
(inorg. and org; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT Lubricating oils
(metalworking, coolants; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts as)

IT Quenching materials
(metalworking; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts in)

IT Colloids
(protective, anionic and cationic; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT Polymerization catalysts
(radical; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT Carboxylic acids, uses
RL: NUU (Other use, unclassified); USES (Uses)
(salts, C1-C15; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT 2997-92-4, V 50
RL: CAT (Catalyst use); USES (Uses)
(aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT 9003-04-7, Polyacrylic acid, sodium salt
28133-65-5, Maleic anhydride-methylvinyl ether copolymer, sodium salt 134367-40-1D, hydrolyzed, sodium salt
RL: NUU (Other use, unclassified); USES (Uses)
(protective colloid; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

IT 6132-04-3, Trisodium citrate, dihydrate 7757-82-6, Sodium sulfate, anhydrous, uses
RL: NUU (Other use, unclassified); USES (Uses)
(salt in colloidal media; aqueous polyvinyllactam dispersions produced in protective colloidal media saturated with salts)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 3 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1154598 HCPLUS Full-text

DOCUMENT NUMBER: 143:423028

TITLE: Method for producing a water-in-water polyvinyllactam dispersion by radical

polymerization in presence of salts
 and anionic dispersants
 INVENTOR(S): Chrisstoffsels, Lysander; Widmaier, Ralf; Garcia, Castro Ivette; Wegmann, Ludger
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany; Garcia Castro, Ivette
 SOURCE: PCT Int. Appl., 26 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005100415	A1	20051027	WO 2005-EP3915	200504 14
<--				
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004019179	A1	20051110	DE 2004-102004019179	200404 16
<--				
EP 1740624	A1	20070110	EP 2005-739403	200504 14
<--				
EP 1740624	B1	20070905		
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
AT 372352	T	20070915	AT 2005-739403	200504 14
<--				
JP 2007532734	T	20071115	JP 2007-507754	200504 14
<--				
US 20070154438	A1	20070705	US 2006-591654	200609 05
<--				
PRIORITY APPLN. INFO.:			DE 2004-102004019179A	200404 16
<--				
			WO 2005-EP3915	W

OTHER SOURCE(S): MARPAT 143:423028

AB A method for producing water-in-water polyvinyllactam dispersions with a K value of ≥ 120 in aqueous reaction media in the presence of anionic polymer dispersants and saturated with organic or inorg. salts by radical polymn of N-vinyl-2-pyrrolidone is described. The homo- or copolymers of ethylenically unsatd. C1-15 carboxylic acids, or sulfonic acids or their corresponding salts are used as anionic polymer dispersants. The prepared aqueous dispersions of polyvinyllactams can be used in cosmetics, pharmaceuticals, adhesives, heat carrier liqs., as well as in formulations for coatings, thinners, adsorbents, binders, ceramics, plastics and metalworking. Thus, a polyvinyllactam dispersion was prepared by dissolving 63.4 g of sodium sulfate in 330 g of deionized water containing 148 g of 20 % aqueous solution of hydrolyzed acrylic acid-vinylformamide copolymer (9:1 ratio) treated with NaOH, adding 5 % solution of sulfuric acid till pH of 6.8, heating this mixture at 60° for 2 h and 40 min, adding 233.4 g of N-vinyl-2-pyrrolidone, followed in 5 min by solution of 0.35 g of 2,2'-azobis(2-methylpropanimidamide) dichloride (V 50) in 55.9 g of deionized water, keeping reaction vessel at 60° for 3 h, heating reaction mixture to 75° and adding solution of 0.7 g of V 50 in 13 g of deionized water, and keeping at 75° for two hours; the K value of the obtained polyvinyllactam dispersion was 141, the viscosity was 10.3 Pas with solids content of 27.65.

IT 134367-40-1D, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)
(anionic dispersant; water-in-water polyvinyllactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated with salts)

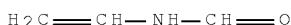
RN 134367-40-1 HCPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

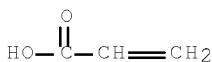
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 9003-39-8P, N-Vinyl-2-pyrrolidone homopolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(water-in-water polyvinyllactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated
with salts)

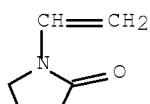
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IC ICM C08F026-10
ICS C08F002-20

CC 37-3 (Plastics Manufacture and Processing)

ST polyvinyllactam aq dispersion prepn salt anionic polymer
dispersant media

IT Lactams

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical
or engineered material use); PREP (Preparation); USES (Uses)
(N-vinyl, polymers; water-in-water polyvinyllactam dispersions
prepared by radical polymerization in aqueous media containing anionic
polymer
dispersants and saturated with salts)

IT Dispersing agents

(anionic; water-in-water polyvinyllactam dispersions prepared by
radical polymerization in aqueous media containing anionic polymer
dispersants
and saturated with salts for use in)

IT Disperse systems

(aqueous; water-in-water polyvinyllactam dispersions prepared by
radical polymerization in aqueous media containing anionic polymer
dispersants
and saturated with salts)

IT Polymerization

(dispersion, radical; water-in-water polyvinyllactam dispersions
prepared by radical polymerization in aqueous media containing anionic
polymer
dispersants and saturated with salts)

IT Quenching materials

(metalworking; water-in-water polyvinyllactam dispersions prepared
by radical polymerization in aqueous media containing anionic polymer
dispersants and saturated with salts for use in)

IT Salts, uses

RL: NUU (Other use, unclassified); USES (Uses)
(organic and inorg.; water-in-water polyvinyllactam dispersions
prepared by radical polymerization in aqueous media containing anionic
polymer
dispersants and saturated with salts)

IT Polymerization catalysts

(radical, dispersion; water-in-water polyvinyllactam dispersions
prepared by radical polymerization in aqueous media containing anionic

polymer

dispersants and saturated with salts)

IT Carboxylic acids, uses

RL: NUU (Other use, unclassified); USES (Uses)

(salts, C1-C15; water-in-water polyvinyllactam

dispersions prepared by radical polymerization in aqueous media containing anionic

polymer dispersants and saturated with salts)

IT Metalworking

(water-in-water polyvinyllactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts)

IT Adhesives

Adsorbents

Binders

Coating materials

Coolants

Cosmetics

Detergents

Drugs

Inks

Pigments, nonbiological

Thickening agents

(water-in-water polyvinyllactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts for use in)

IT Plastics, miscellaneous

RL: MSC (Miscellaneous)

(water-in-water polyvinyllactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts for use in)

IT Ceramics

(water-in-water polyvinyllactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts for use in in formulations for)

IT 134367-40-1D, hydrolyzed, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersant; water-in-water polyvinyllactam dispersions

prepared by radical polymerization in aqueous media containing anionic polymer

dispersants and saturated with salts)

IT 28133-65-5, Maleic anhydride-methylvinylether copolymer, sodium salt

RL: NUU (Other use, unclassified); USES (Uses)

(anionic dispersion media; water-in-water polyvinyllactam

dispersions prepared by radical polymerization in aqueous media containing anionic

polymer dispersants and saturated with salts)

IT 2997-92-4, V 50

RL: CAT (Catalyst use); USES (Uses)

(water-in-water polyvinyllactam dispersions prepared by radical

polymerization in aqueous media containing anionic polymer dispersants and saturated

with salts)

IT 9003-39-8E, N-Vinyl-2-pyrrolidone homopolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM

(Technical or engineered material use); PREP (Preparation); USES (Uses)

(water-in-water polyvinylactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated with salts)

IT 6132-04-3, Trisodium citrate dihydrate 7757-82-6, Sodium sulfate, uses

RL: NUU (Other use, unclassified); USES (Uses)
(water-in-water polyvinylactam dispersions prepared by radical polymerization in aqueous media containing anionic polymer dispersants and saturated with salts)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 4 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:200109 HCPLUS Full-text

DOCUMENT NUMBER: 140:236500

TITLE: Production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids

PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396508	A1	20040310	EP 2002-19907	200209 04 <--
WO 2004022615	A1	20040318	WO 2003-EP9597	200308 29 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003260474	A1	20040329	AU 2003-260474	200308 29 <--

September 12, 2009

10/591,796

16

EP 1546224

A1

20050629

EP 2003-793769

200308

29

<--

EP 1546224

B1

20060517

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

CN 1678649

A

20051005

CN 2003-821001

200308

29

<--

CN 1294170

C

20070110

JP 2005537374

T

20051208

JP 2004-533421

200308

29

<--

AT 326490

T

20060615

AT 2003-793769

200308

29

<--

ES 2263060

T3

20061201

ES 2003-793769

200308

29

<--

US 20060116470

A1

20060601

US 2005-525587

200502

25

<--

PRIORITY APPLN. INFO.:

EP 2002-19907

A

200209

04

<--

WO 2003-EP9597

W

200308

29

<--

AB Water-soluble or water-swellable cationic polymers are prepared by (i) free-radically initiated copolymer of monomer mixts. in water comprising (a) 1-99% of a cationic monomer or quaternizable monomer, (b) 1-99% of a water-soluble monomer, (c) 0-10% of a bi- or polyfunctional, free-radically copolymerizable monomer, adjusting the amts. (a) to (c) in such a way that the resulting polymer has an overall pos. charge, in the presence of 1-100% of the amount of a salt which is necessary to saturate the reaction medium with said salt and in the presence of 0.1 to 20% referred to the weight of the dispersion, of an amphoteric dispersant having an overall neg. charge, and (ii) subsequent quaternization of the polymer if the monomer (a) employed is a non-quaternized monomer is disclosed. A dimethylaminoethyl methacrylate di-Et sulfate salt-vinylpyrrolidone copolymer was prepared in the presence of an acrylic acid-vinyl amine copolymer dispersant.

IT 30916-76-8P, Acrylic acid-vinyl amine copolymer
 73565-51-2P 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, hydrolyzed
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
 PREP (Preparation); USES (Uses)
 (dispersant; production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)

RN 30916-76-8 HCPLUS

CN 2-Propenoic acid, polymer with ethenamine (9CI) (CA INDEX NAME)

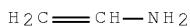
September 12, 2009

10/591,796

17

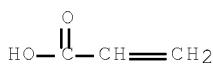
CM 1

CRN 593-67-9
CMF C2 H5 N



CM 2

CRN 79-10-7
CMF C3 H4 O2

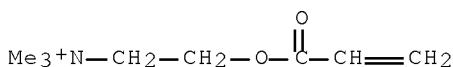


RN 73565-51-2 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with 2-propenoic acid (CA INDEX NAME)

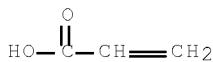
CM 1

CRN 44992-01-0
CMF C8 H16 N O2 . Cl



CM 2

CRN 79-10-7
CMF C3 H4 O2

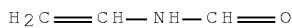


RN 134367-40-1 HCPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

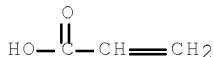
CM 1

CRN 13162-05-5
CMF C3 H5 N O

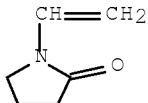


CM 2

CRN 79-10-7
 CMF C3 H4 O2



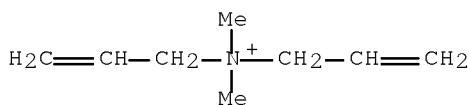
IT 88-12-00P, polymers with quaternized vinylimidazole
 27015-38-9P 99588-80-4P 220226-78-8P
 RL: IMF (Industrial manufacture); TEM (Technical or
 engineered material use); PREP (Preparation); USES (Uses)
 (production of aqueous dispersions of cationic homo- and
 copolymers using amphoteric protective colloids)
 RN 88-12-0 HCPLUS
 CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



RN 27015-38-9 HCPLUS
 CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propen-1-yl-, chloride (1:1),
 polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

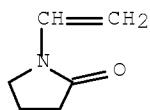
CRN 7398-69-8
 CMF C8 H16 N . Cl



CM 2

CRN 88-12-0

CMF C6 H9 N O



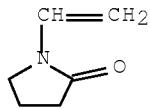
RN 99588-80-4 HCPLUS

CN Ethanaminium, N-ethyl-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, ethyl sulfate (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



CM 2

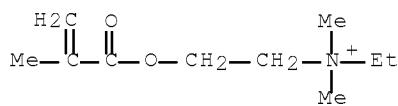
CRN 13223-03-5

CMF C10 H20 N O2 . C2 H5 O4 S

CM 3

CRN 48063-69-0

CMF C10 H20 N O2



CM 4

CRN 48028-76-8

CMF C2 H5 O4 S

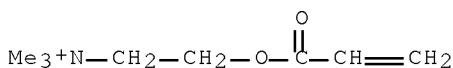
Et-O-SO3-

RN 220226-78-8 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with N-ethenylformamide (9CI) (CA INDEX NAME)

CM 1

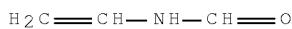
CRN 44992-01-0
CMF C8 H16 N O2 . Cl



● Cl⁻

CM 2

CRN 13162-05-5
CMF C3 H5 N O



IC ICM C08F220-34
ICS C08F220-04
CC 37-3 (Plastics Manufacture and Processing)
ST cationic polymer dispersion amphoteric protective colloid
IT Dispersing agents
(amphoteric; production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)
IT Quaternization
(production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)
IT Polymerization
(radical; production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)
IT 30916-76-8P, Acrylic acid-vinyl amine copolymer
73565-51-2P 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, hydrolyzed
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PREP (Preparation); USES (Uses)
(dispersant; production of aqueous dispersions of cationic homo- and copolymers using amphoteric protective colloids)
IT 88-12-0DP, polymers with quaternized vinylimidazole
13162-05-5DP, N-Vinylformamide, polymers with quaternized vinylimidazole 27015-38-9P 29383-23-1DP,
Vinylimidazole, quaternized, polymers with vinylformamide 99588-80-4P 155368-64-2P 220226-78-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(production of aqueous dispersions of cationic homo- and

copolymers using amphoteric protective colloids)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2003:656479 HCAPLUS Full-text
 DOCUMENT NUMBER: 139:192919
 TITLE: Preparation of acryloyldimethyltaurate polymers as adjuvants in pesticide formulations
 INVENTOR(S): Walter, Michael Marcus; Morschhaeuser, Roman; Zerrer, Ralf
 PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2003067981	A1	20030821	WO 2003-EP1272	200302 10 ---
DE 10206468	A1	20030828	DE 2002-10206468	200202 16 ---
PRIORITY APPLN. INFO.:			DE 2002-10206468	A 200202 16 ---

AB The invention relates to pesticide formulation adjuvants containing at least one copolymer, obtained by radical copolymer of (A) acryloyldimethyltaurine acid and/or acryloyldimethyltaurates, (B) optionally, one or more other olefinically-unsatd., noncationic comonomers, (C) optionally one or more olefinically-unsatd., cationic comonomers, (D) optionally one or more components containing silicon, (E) optionally one or more components containing fluorine, (F) optionally one or more macromonomers, (G) whereby the copolymer occurs optionally in the presence of at least one polymer additive, (H) under the proviso that component (A) is copolymerd. with at least one component selected from one of the groups (D) to (G).
 IT 88-12-00P, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 102583-40-4DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 134367-40-1P 433922-59-9DP, salts 434942-13-9DP, salts 434942-13-9P 582309-44-2DP, salts 582309-45-3DP, salts 582309-46-4DP, salts 582309-47-5DP, salts 582309-48-6DP, salts 582315-49-9DP, salts 582315-50-2DP, salts

September 12, 2009

10/591,796

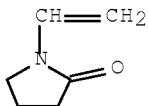
22

582315-52-4DP, salts 583024-29-7DP,
salts

RL: MOA (Modifier or additive use); SPN (Synthetic
preparation); PREP (Preparation); USES (Uses)
(preparation as adjuvant in pesticide formulations)

RN 88-12-0 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



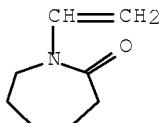
RN 102583-40-4 HCAPLUS

CN 2-Propenoic acid, polymer with 1-ethenylhexahydro-2H-azepin-2-one
(9CI) (CA INDEX NAME)

CM 1

CRN 2235-00-9

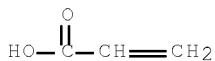
CMF C8 H13 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



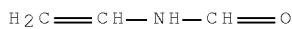
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

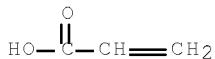
CM 1

CRN 13162-05-5

CMF C3 H5 N O



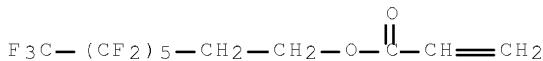
CM 2

CRN 79-10-7
CMF C3 H4 O2

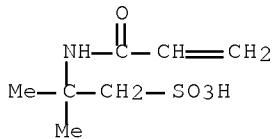
RN 433922-59-9 HCAPLUS

CN 2-Propenoic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoroctyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 17527-29-6
CMF C11 H7 F13 O2

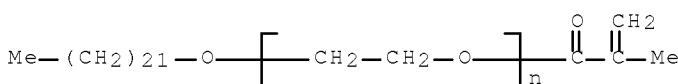
CM 2

CRN 15214-89-8
CMF C7 H13 N O4 S

RN 434942-13-9 HCAPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with α -(2-methyl-1-oxo-2-propen-1-yl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (CA INDEX NAME)

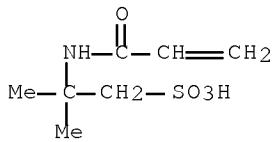
CM 1

CRN 115047-92-2
CMF (C2 H4 O)n C26 H50 O2
CCI PMS

CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 434942-13-9 HCPLUS

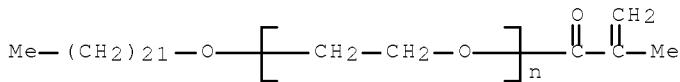
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with α -(2-methyl-1-oxo-2-propen-1-yl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C2 H4 O)n C26 H50 O2

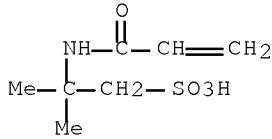
CCI PMS



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-44-2 HCPLUS

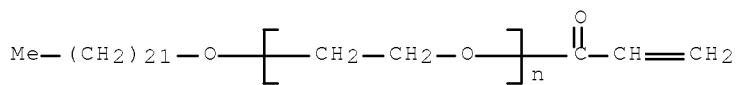
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, polymer with α -(1-oxo-2-propenyl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 582309-43-1

CMF (C2 H4 O)n C25 H48 O2

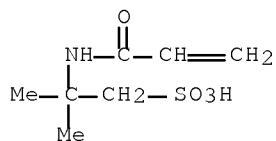
CCI PMS



CM 2

CRN 15214-89-8

CMF C7 H13 N O4 S



RN 582309-45-3 HCAPLUS

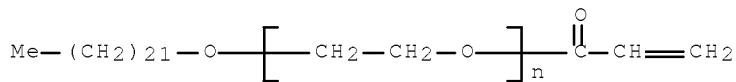
CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl ester, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and
 α -(1-oxo-2-propenyl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 582309-43-1

CMF (C2 H4 O)n C25 H48 O2

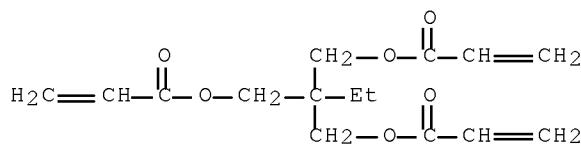
CCI PMS



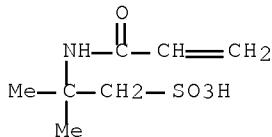
CM 2

CRN 15625-89-5

CMF C15 H20 O6

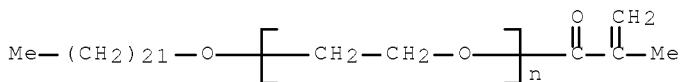


CM 3

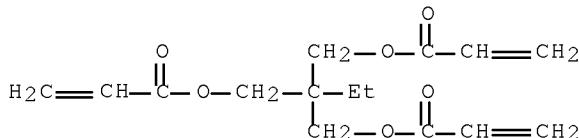
CRN 15214-89-8
CMF C7 H13 N O4 S

RN 582309-46-4 HCPLUS
 CN 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and
 α -(2-methyl-1-oxo-2-propenyl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

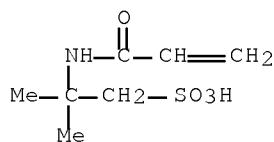
CRN 115047-92-2
CMF (C₂ H₄ O)_n C₂₆ H₅₀ O₂
CCI PMS

CM 2

CRN 15625-89-5
CMF C₁₅ H₂₀ O₆

CM 3

CRN 15214-89-8
CMF C7 H13 N O4 S



RN 582309-47-5 HCAPLUS

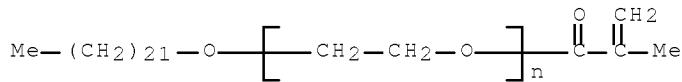
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and α -(2-methyl-1-oxo-2-propenyl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 115047-92-2

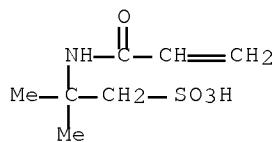
CMF (C₂ H₄ O)_n C₂₆ H₅₀ O₂

CCI PMS



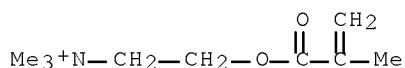
CM 2

CRN 15214-89-8

CMF C₇ H₁₃ N O₄ S

CM 3

CRN 5039-78-1

CMF C₉ H₁₈ N O₂ . Cl● Cl⁻

RN 582309-48-6 HCAPLUS

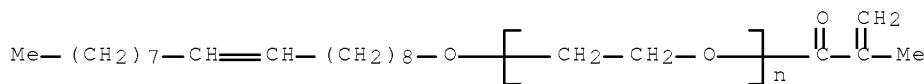
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with N-ethenylformamide, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and α -(2-methyl-1-oxo-2-propenyl)- ω -[(9Z)-9-octadecenoxy]poly(oxo-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 176110-19-3

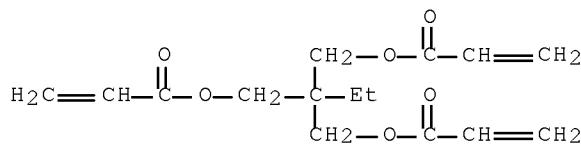
CMF (C₂ H₄ O)_n C₂₂ H₄₀ O₂

CCI PMS



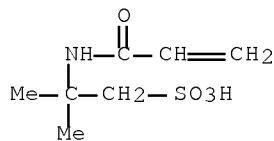
CM 2

CRN 15625-89-5

CMF C₁₅ H₂₀ O₆

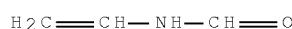
CM 3

CRN 15214-89-8

CMF C₇ H₁₃ N O₄ S

CM 4

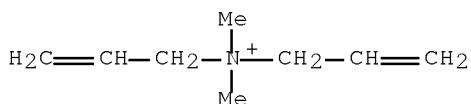
CRN 13162-05-5

CMF C₃ H₅ N O

CM 5

CRN 7398-69-8

CMF C8 H16 N . Cl



● Cl-

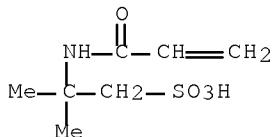
RN 582315-49-9 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,
polymer with Silwet 867 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

CRN 582315-48-8

CMF C4 H6 O2 . x Unspecified

CM 3

CRN 306773-13-7

CMF Unspecified

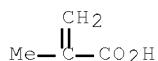
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 4

CRN 79-41-4

CMF C4 H6 O2



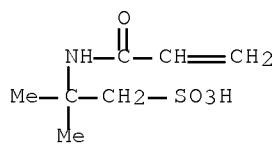
RN 582315-50-2 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,
polymer with N,N'-methylenebis[2-propenamide] and Silwet 867
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

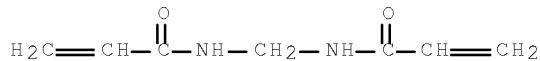
CMF C7 H13 N O4 S



CM 2

CRN 110-26-9

CMF C7 H10 N2 O2



CM 3

CRN 582315-48-8

CMF C4 H6 O2 . x Unspecified

CM 4

CRN 306773-13-7

CMF Unspecified

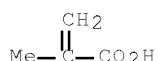
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 5

CRN 79-41-4

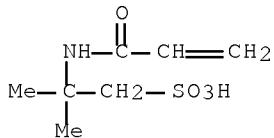
CMF C4 H6 O2



RN 582315-52-4 HCPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,
 polymer with N,N'-methylenebis[2-propenamide] and Silwet 867
 2-propenoate (9CI) (CA INDEX NAME)

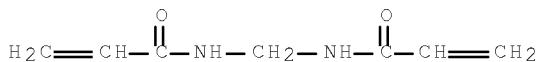
CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



CM 2

CRN 110-26-9
 CMF C7 H10 N2 O2



CM 3

CRN 582315-51-3
 CMF C3 H4 O2 . x Unspecified

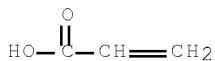
CM 4

CRN 306773-13-7
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 5

CRN 79-10-7
 CMF C3 H4 O2

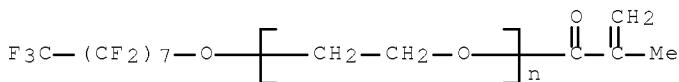


RN 583024-29-7 HCPLUS

CN Sorbitan, mono-(9Z)-9-octadecenoate, polymer with
 α -(2-methyl-1-oxo-2-propenyl)- ω -
 [(heptadecafluoroctyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX
 NAME)

CM 1

CRN 434286-58-5
 CMF (C₂ H₄ O)_n C₁₂ H₅ F₁₇ O₂
 CCI PMS



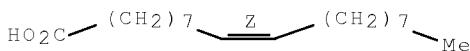
CM 2

CRN 1338-43-8
 CMF C₂₄ H₄₄ O₆
 CCI IDS

CM 3

CRN 112-80-1
 CMF C₁₈ H₃₄ O₂

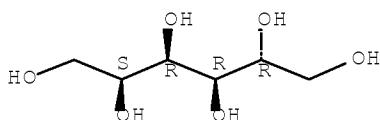
Double bond geometry as shown.



CM 4

CRN 50-70-4
 CMF C₆ H₁₄ O₆

Absolute stereochemistry.



IC ICM A01N025-10
 ICS A01N025-30
 CC 5-3 (Agrochemical Bioregulators)
 Section cross-reference(s): 38
 IT 79-06-1DP, Acrylamide, polymers with fatty alc. derivs. of
 (meth)acrylic and unsatd. monomers 98-12-0DP, polymers
 with fatty alc. derivs. of (meth)acrylic and unsatd. monomers

96-05-9DP, Allyl methacrylate, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 110-26-9DP,
 Methylenebisacrylamide, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 868-77-9DP, 2-Hydroxyethyl methacrylate, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 1338-43-8DP, Span 80, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 1746-03-8DP,
 Vinylphosphonic acid, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 5039-78-1DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 7398-69-8DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 13162-05-5DP, n-Vinylformamide, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 15214-89-8DP, fatty alc. derivs. of (meth)acrylic and unsatd. monomers 15214-89-8DP, AMPS, polymers with ethoxylated C12-15-alkyl acrylates and itaconates, salts
 15625-89-5DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 26403-58-7DP, Polyethylene glycol monoacrylate, C12-15-alkyl ethers, polymers with AMPS, salts
 26915-72-0DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 45708-78-9DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 102583-40-4DP,
 polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 134367-40-1P 190735-24-1DP, Fluowet ac 812,
 polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 214559-58-7DP, C12-15-alkyl ethers, polymers with AMPS, salts 433922-59-9DP, salts
 434286-58-5DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 434286-60-9DP, polymers with fatty alc. derivs. of (meth)acrylic and unsatd. monomers 434942-13-9DP,
 salts 434942-13-9P 582309-44-2DP,
 salts 582309-45-3DP, salts
 582309-46-4DP, salts 582309-47-5DP,
 salts 582309-48-6DP, salts
 582315-49-9DP, salts 582315-50-2DP,
 salts 582315-52-4DP, salts
 583024-29-7DP, salts
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (preparation as adjuvant in pesticide formulations)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 6 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:428954 HCPLUS Full-text
 DOCUMENT NUMBER: 137:21790
 TITLE: Compositions containing copolymers based on acryloylaminodimethylmethanesulfonic acid and synergistic additives
 INVENTOR(S): Morschhaeuser, Roman; Kayser, Christoph; Loeffler, Matthias; Heier, Karl Heinz; Tardi, Aranka; Schade, Manfred; Botthof, Gernold
 PATENT ASSIGNEE(S): Clariant GmbH, Germany
 SOURCE: PCT Int. Appl., 33 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 16
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2002044230	A2	20020606	WO 2001-EP13859	200111 28
WO 2002044230	A3	20021031		<--
W: BR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
DE 10059818	A1	20020613	DE 2000-10059818	200012 01
DE 10059819	A1	20020613	DE 2000-10059819	200012 01
DE 10059821	A1	20020613	DE 2000-10059821	200012 01
DE 10059822	A1	20020613	DE 2000-10059822	200012 01
DE 10059823	A1	20020613	DE 2000-10059823	200012 01
DE 10059824	A1	20020613	DE 2000-10059824	200012 01
DE 10059825	A1	20020613	DE 2000-10059825	200012 01
DE 10059826	A1	20020613	DE 2000-10059826	200012 01
DE 10059828	A1	20020613	DE 2000-10059828	200012 01
DE 10059829	A1	20020613	DE 2000-10059829	200012 01
DE 10059830	A1	20020613	DE 2000-10059830	200012 01
DE 10059831	A1	20020613	DE 2000-10059831	200012 01
				<--

September 12, 2009

10/591,796

35

DE 10059832	A1	20020613	DE 2000-10059832	200012 01
DE 10059833	A1	20020613	DE 2000-10059833	200012 01
DE 10059827	A1	20020620	DE 2000-10059827	200012 01
DE 10127876	A1	20021212	DE 2001-10127876	200106 11
JP 2002327102	A	20021115	JP 2001-296004	200109 27
BR 2001015764	A	20030916	BR 2001-15764	200111 28
EP 1354001	A2	20031022	EP 2001-998569	200111 28
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
US 20040109838	A1	20040610	US 2003-433119	200311 24
US 7053146	B2	20060530		
US 20080069793	A1	20080320	US 2007-982801	200711 05
PRIORITY APPLN. INFO.:			DE 2000-10059818	A 200012 01
			DE 2000-10059819	A 200012 01
			DE 2000-10059821	A 200012 01
			DE 2000-10059822	A 200012 01
			DE 2000-10059823	A 200012 01
			DE 2000-10059824	A

			200012
			01
	<--		
	DE 2000-10059825	A	200012
			01
	<--		
	DE 2000-10059826	A	200012
			01
	<--		
	DE 2000-10059827	A	200012
			01
	<--		
	DE 2000-10059828	A	200012
			01
	<--		
	DE 2000-10059829	A	200012
			01
	<--		
	DE 2000-10059830	A	200012
			01
	<--		
	DE 2000-10059831	A	200012
			01
	<--		
	DE 2000-10059832	A	200012
			01
	<--		
	DE 2000-10059833	A	200012
			01
	<--		
	DE 2001-10127876	A	200106
			11
	<--		
	WO 2001-EP13859	W	200111
			28
	<--		
	US 2003-433175	A1	200311
			17
	<--		

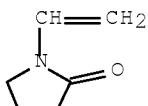
AB The invention relates to compns. containing copolymers based on acryloylaminodimethylmethanesulfonic acid or its salts, in addition to synergistic additives, selected from anionic, cationic, nonionic and/or betaine surfactants. Said compns. are characterized by a distinctive thermoassociative behavior and are particularly suitable as thickeners.

IT 88-12-0DP, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone 9003-01-4DP, Polyacrylic acid,

reaction products with acryloylaminodimethylmethanesulfonate-based copolymers 9003-05-8DP, Polyacrylamide, reaction products with acryloylaminodimethylmethylethanesulfonate-based copolymers 9003-39-8DP, K-30, reaction products with copolymers of acryloylaminodimethylmethylethanesulfonate salts 25087-26-7DP, Polymethacrylic acid, reaction products with acryloylaminodimethylmethylethanesulfonate-based copolymers 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloylaminodimethylmethylethanesulfonate-based copolymers 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction products with acryloylaminodimethylmethylethanesulfonate-based copolymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with acryloylaminodimethylmethylethanesulfonate-based copolymers 434337-19-6P 434337-20-9P 434938-17-7P 435278-89-0P
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (compns. containing copolymers based on acryloylaminodimethylmethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

RN 88-12-0 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



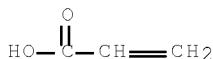
RN 9003-01-4 HCPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-05-8 HCPLUS

CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

CRN 79-06-1

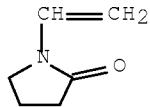
CMF C3 H5 N O



RN 9003-39-8 HCAPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

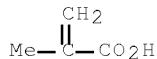
CRN 88-12-0
 CMF C6 H9 N O



RN 25087-26-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, homopolymer (CA INDEX NAME)

CM 1

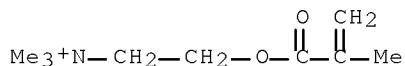
CRN 79-41-4
 CMF C4 H6 O2



RN 26161-33-1 HCAPLUS
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), homopolymer (CA INDEX NAME)

CM 1

CRN 5039-78-1
 CMF C9 H18 N O2 . Cl

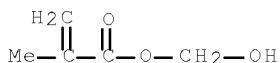


● Cl⁻

RN 50885-97-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, hydroxymethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 21982-30-9
 CMF C5 H8 O3



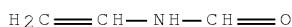
RN 134367-40-1 HCPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

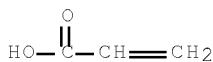
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 434337-19-6 HCPLUS

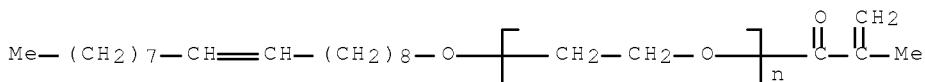
CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monosodium salt, polymer with N-ethenylformamide and [α -(2Z)-2-methyl-1-oxo-2-propenyl]- ω -(9-octadecenoxy)poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 176110-19-3

CMF (C2 H4 O)n C22 H40 O2

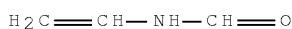
CCI PMS



CM 2

CRN 13162-05-5

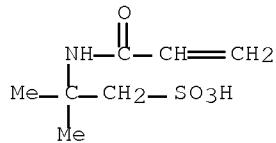
CMF C3 H5 N O



CM 3

CRN 5165-97-9

CMF C7 H13 N O4 S . Na



● Na

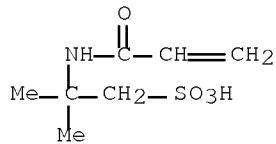
RN 434337-20-9 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monoammonium salt, polymer with 1-ethenyl-2-pyrrolidinone, α -(2-methyl-1-oxo-2-propenyl)- ω -butoxypoly(oxy-1,2-ethanediyl) and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 58374-69-9

CMF C7 H13 N O4 S . H3 N

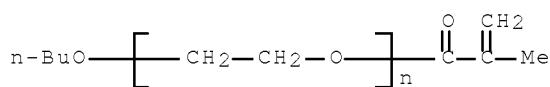
● NH₃

CM 2

CRN 51053-34-0

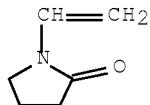
CMF (C₂ H₄ O)_n C₈ H₁₄ O₂

CCI PMS



CM 3

CRN 88-12-0
 CMF C6 H9 N O



CM 4

CRN 79-06-1
 CMF C3 H5 N O



RN 434938-17-7 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, monoammonium salt, polymer with 1-ethenyl-2-pyrrolidinone, oxirane and 2-propenamide, butyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 71-36-3
 CMF C4 H10 O

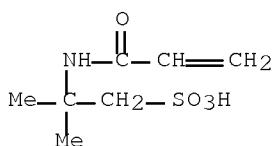


CM 2

CRN 434938-16-6
 CMF (C7 H13 N O4 S . C6 H9 N O . C3 H5 N O . C2 H4 O . H3 N)x
 CCI PMS

CM 3

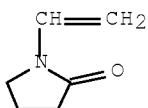
CRN 58374-69-9
 CMF C7 H13 N O4 S . H3 N



● NH₃

CM 4

CRN 88-12-0
CMF C6 H9 N O



CM 5

CRN 79-06-1
CMF C3 H5 N O



CM 6

CRN 75-21-8
CMF C2 H4 O

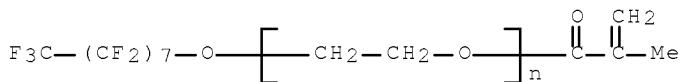


RN 435278-89-0 HCAPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,
 monoammonium salt, polymer with
 α-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-
 ω-[[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]oxy]poly[oxy(dimethylsilylene)],
 α-(2-methyl-1-oxo-2-propenyl)-ω-
 [(heptadecafluoroctyl)oxy]poly(oxy-1,2-ethanediyl) and
 α-(2-methyl-1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-

ethanediyl) (9CI) (CA INDEX NAME)

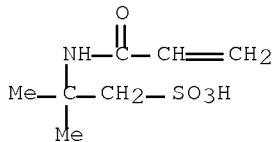
CM 1

CRN 434286-58-5
 CMF (C₂ H₄ O)_n C₁₂ H₅ F₁₇ O₂
 CCI PMS



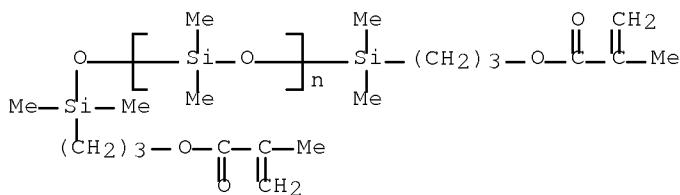
CM 2

CRN 58374-69-9
 CMF C₇ H₁₃ N O₄ S . H₃ N

● NH₃

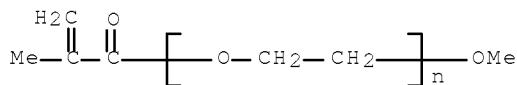
CM 3

CRN 58130-03-3
 CMF (C₂ H₆ O Si)_n C₁₈ H₃₄ O₅ Si₂
 CCI PMS



CM 4

CRN 26915-72-0
 CMF (C₂ H₄ O)_n C₅ H₈ O₂
 CCI PMS



IC ICM C08F291-00
 CC 46-4 (Surface Active Agents and Detergents)
 IT Alcohols, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (C12-14, ethoxylated, Genapol LA 070; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Alcohols, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers with acryloylaminodimethylethanesulfonates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Polyoxyalkylenes, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (alkyl ethers, methacrylates, polymers with TMPTA and AMPS ammonium salts; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Surfactants
 (anionic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Surfactants
 (cationic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Cosmetics
 Detergents
 Drugs
 Petroleum recovery
 Polyelectrolytes
 Thickening agents
 (compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Betaines
 Fluoropolymers, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)
 IT Polyoxyalkylenes, preparation
 RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (ethers, reaction products, with acryloylaminodimethylethanesulfonate-based polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic

acid or its salts and synergistic surfactant additives for thickeners)

IT Surfactants
(nonionic; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Agriculture and Agricultural chemistry
(plant protective agents; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Quaternary ammonium compounds, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polysiloxanes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(polyoxyalkylene-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(polysiloxane-, acrylates, Silvet Y-12867, polymers, with AMPS ammonium salt and polyoxyalkylene (meth)acrylates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(reaction products with acryloylaminodimethylethanesulfonate-based copolymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Polyoxyalkylenes, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(reaction products, with acryloylaminodimethylethanesulfonate-based polymers; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT Alcohols, preparation
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)
(tallow, ethoxylated, Genapol, (meth)acrylates, polymers with acryloylaminodimethylethanesulfonates; compns. containing copolymers based on acryloylaminodimethylethanesulfonic acid or its salts and synergistic surfactant additives for thickeners)

IT 79-41-4DP, Methacrylic acid, esters with polyoxyalkylene, polymers with TMPTA and AMPS ammonium salt 88-12-0DP, polymers with polyoxyalkylene methacrylates, AMPS ammonium salt, and methacryloyloxyethyltrimethylammonium chloride, reaction products with polyvinylpyrrolidone 5039-78-1DP, Methacryloyloxyethyltrimethylammonium chloride, polymers with AMPS

ammonium salt, polyethylene glycol monocrotonate
C12-14-alkyl ethers and diallyldimethylammonium chloride, reaction
products with acrylic acid-vinylformamide copolymer 5039-78-1DP,
2-Methacryloyloxyethyltrimethylammonium chloride, polymers with
polyoxyalkylene methacrylates, AMPS ammonium salt, and
vinylpyrrolidone, reaction products with polyvinylpyrrolidone
7398-69-8DP, Diallyldimethylammonium chloride, polymers with AMPS
ammonium salt, polyethylene glycol monocrotonate
C12-14-alkyl ethers and methacryloyloxyethyltrimethylammonium
chloride, reaction products with acrylic acid-vinylformamide
copolymer 7664-93-9DP, Sulfuric acid, esters with fatty alcs.,
salts 9002-92-0P, Polyethylene glycol lauryl ether
9003-01-4DP, Polyacrylic acid, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
9003-05-8DP, Polyacrylamide, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
9003-39-8DP, K-30, reaction products with copolymers of
acryloylaminodimethylmethanesulfonate salts 9004-77-7P,
Polyethylene glycol butyl ether 15214-89-8DP, AMPS, polymers with
polyoxyalkylene (meth)acrylates and
methacrylamidoethyltrimethylammonium chloride 15625-89-5DP, TMPTA,
polymers with polyoxyalkylene methacrylates and AMPS ammonium
salt 25087-26-7DP, Polymethacrylic acid,
reaction products with acryloylaminodimethylmethanesulfonate-based
copolymers 25189-83-7DP, Poly-N-vinylcaprolactam, reaction
products with acryloylaminodimethylmethanesulfonate-based copolymers
25322-68-3DP, Polyethylene glycol, alkyl ethers, methacrylates,
polymers with TMPTA and AMPS ammonium salts
25322-69-4DP, Polypropylene glycol, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
25736-86-1DP, Polyethylene glycol monomethacrylate, C12-14-alkyl
ethers, polymers with polyoxyalkylene acrylates,
methacrylamidoethyltrimethylammonium chloride, and AMPS
25852-47-5DP, Polyethylene glycol dimethacrylate, polymers with AMPS
ammonium salt, ethoxylated polysiloxane methacrylate, and
polyoxyalkylene acrylate 26062-79-3DP, Polydiallyldimethylammonium
chloride, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium
chloride, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
26616-03-5DP, Poly-N-vinyl-N-methylacetamide, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
28408-65-3DP, Poly-N-vinylacetamide, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
31851-82-8DP, Poly-N-vinylmorpholine, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
50885-97-7DP, Polyhydroxymethyl methacrylate, reaction
products with acryloylaminodimethylmethanesulfonate-based copolymers
58374-69-9DP, polymers with polyoxyalkylene methacrylates and TMPTA
72018-12-3DP, Poly-N-vinylformamide, reaction products with
acryloylaminodimethylmethanesulfonate-based copolymers
134367-40-1DP, Acrylic acid-N-vinylformamide copolymer,
reaction products with acryloylaminodimethylmethanesulfonate-based
copolymers 434337-19-6P 434337-20-9P
434938-17-7P 435278-89-0P
RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL
(Biological study); PREP (Preparation); USES (Uses)
(compns. containing copolymers based on
acryloylaminodimethylmethanesulfonic acid or its salts

and synergistic surfactant additives for thickeners)
 OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS
 RECORD (14 CITINGS)
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN
 THE RE FORMAT

L40 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2002:428948 HCAPLUS Full-text
 DOCUMENT NUMBER: 137:20778
 TITLE: Water-soluble and water-swellable copolymers
 based on acryloyldimethyltaurine acid
 INVENTOR(S): Morschhaeuser, Roman; Glauder, Jan; Loeffler,
 Matthias; Kayser, Christoph; Tardi, Aranka
 PATENT ASSIGNEE(S): Clariant GmbH, Germany
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 16
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2002044224	A2	20020606	WO 2001-EP13854	200111 28
WO 2002044224	A3	20030912		<--
W: BR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
DE 10059828	A1	20020613	DE 2000-10059828	200012 01
JP 2002201239	A	20020719	JP 2001-296003	200109 27
EP 1363956	A2	20031126	EP 2001-991763	200111 28
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				<--
BR 2001015815	A	20040127	BR 2001-15815	200111 28
US 20040167304	A1	20040826	US 2003-433179	200311 10
US 6891011	B2	20050510	DE 2000-10059828	<--
PRIORITY APPLN. INFO.:			A	200012 01

WO 2001-EP13854

W

200111

28

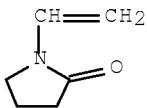
<--

AB The invention relates to water-soluble or water-swellable copolymers, which are obtained by radically copolymerg.: (A) acryloyldimethyltaurine acid and/or acryloyldimethyltaurates, (B) optionally, one or more addnl. olefinically unsatd., non-cationic comonomers, (C) optionally, one or more olefinically unsatd., cationic comonomers, (D) optionally, one or more silicon-containing constituent(s), (E) optionally one or more fluorine-containing constituent(s), (F) optionally one or more macromonomers, (G) optionally, at least one polymeric additive, with the provision that constituent (A) is copolymerd. with at least two constituents selected from at least two of groups (C) to (F). A typical copolymer was manufactured by radical polymerization of AMPS NH4 salt 80, Genapol LA-070 methacrylate 10, Silvet 7608 (monofunctional ethoxylated siloxane methacrylate) 10, and TMPTA 1.8 g.

IT 88-12-0DP, N-Vinyl-2-pyrrolidone, copolymers with acryloyldimethyltaurates 9003-39-8DP, K-30, reaction products with acryloyldimethyltaurate salt polymers 102583-40-4DP, Acrylic acid-N-vinylcaprolactam copolymer, reaction products with acryloyldimethyltaurate-based polymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with copolymers of acryloyldimethyltaurates 434286-57-4DP, Ammonium 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonate-ethylene oxide-2-(methacryloyloxy)ethyltrimethylammonium chloride-N-vinyl-2-pyrrolidone graft copolymer, ethers with tallow alcs., reaction products with polyvinylpyrrolidone 434286-59-6DP, reaction products with poly-N-vinylformamide 435278-26-5DP, ethers with tallow alcs.
 RL: IMF (Industrial manufacture); PREP
 (Preparation)
 (water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

RN 88-12-0 HCPLUS

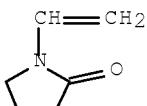
CN 2-Pyrrolidinone, 1-ethenyl- (CA INDEX NAME)



RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0
CMF C6 H9 N O

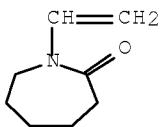
RN 102583-40-4 HCAPLUS

CN 2-Propenoic acid, polymer with 1-ethenylhexahydro-2H-azepin-2-one
(9CI) (CA INDEX NAME)

CM 1

CRN 2235-00-9

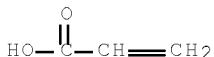
CMF C8 H13 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



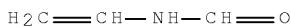
RN 134367-40-1 HCAPLUS

CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5

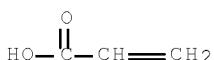
CMF C3 H5 N O



CM 2

CRN 79-10-7

CMF C3 H4 O2



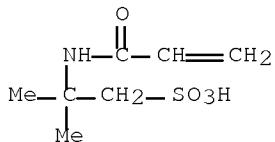
RN 434286-57-4 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 1-ethenyl-2-pyrrolidinone,

2-methyl-1-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid
monoammonium salt and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

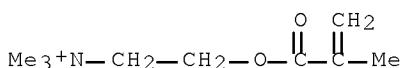
CRN 58374-69-9
CMF C7 H13 N O4 S . H3 N



● NH₃

CM 2

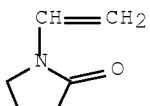
CRN 5039-78-1
CMF C9 H18 N O2 . Cl



● Cl⁻

CM 3

CRN 88-12-0
CMF C6 H9 N O



CM 4

CRN 75-21-8
CMF C2 H4 O



RN 434286-59-6 HCPLUS

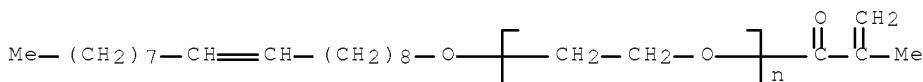
CN 2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with N-ethenylformamide, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and α -[(2Z)-2-methyl-1-oxo-2-propenyl]- ω -(9-octadecenyl)poly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 176110-19-3

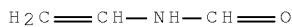
CMF (C₂ H₄ O)_n C₂₂ H₄₀ O₂

CCI PMS



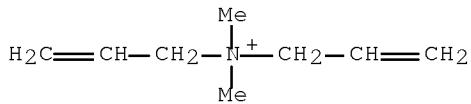
CM 2

CRN 13162-05-5

CMF C₃ H₅ N O

CM 3

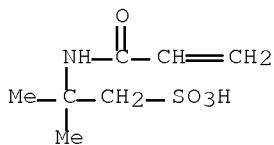
CRN 7398-69-8

CMF C₈ H₁₆ N . Cl● Cl⁻

CM 4

CRN 5165-97-9

CMF C₇ H₁₃ N O₄ S . Na



● Na

RN 435278-26-5 HCPLUS

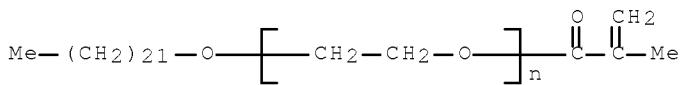
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, α -(2-methyl-1-oxo-2-propenyl)- ω -(docosyloxy)poly(oxy-1,2-ethanediyl) and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 115047-92-2

CMF (C₂ H₄ O)_n C₂₆ H₅₀ O₂

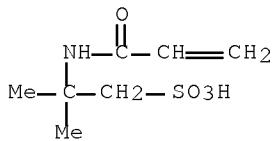
CCI PMS



CM 2

CRN 15214-89-8

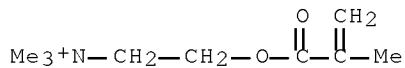
CMF C₇ H₁₃ N O₄ S



CM 3

CRN 5039-78-1

CMF C₉ H₁₈ N O₂ . Cl



● Cl⁻

CM 4

CRN 75-21-8
CMF C2 H4 O



IC ICM C08F020-58
 CC 35-4 (Chemistry of Synthetic High Polymers)
 IT Alcohols, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (C12-14, ethoxylated, Genapol LA-070, methacrylates, polymers
 with acryloyldimethyltaurates; water-soluble and water-swellable
 copolymers based on acryloyldimethyltaurine acid or its
 salts)
 IT Polymers, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (comb; water-soluble and water-swellable copolymers based on
 acryloyldimethyltaurine acid or its salts)
 IT Quaternary ammonium compounds, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polymers; water-soluble and water-swellable copolymers based on
 acryloyldimethyltaurine acid or its salts)
 IT Polysiloxanes, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polyoxyalkylene-, acrylates, Silvet 7608, Silvet Y-12867,
 polymers with acryloyldimethyltaurates; water-soluble and
 water-swellable copolymers based on acryloyldimethyltaurine acid
 or its salts)
 IT Polyoxyalkylenes, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polysiloxane-, acrylates, Silvet 7608, Silvet Y-12867, polymers
 with acryloyldimethyltaurates; water-soluble and water-swellable
 copolymers based on acryloyldimethyltaurine acid or its
 salts)
 IT Polymerization
 (radical; acryloyldimethyltaurine acid or its salts
 with macromonomers)
 IT Alcohols, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (tallow, ethers, with graft polymers of ethylene oxide and
 acryloyldimethyltaurates; water-soluble and water-swellable
 copolymers based on acryloyldimethyltaurine acid or its
 salts)
 IT Alcohols, preparation
 RL: IMF (Industrial manufacture); PREP (Preparation)

(tallow, ethoxylated, acrylates, polymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam; water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

IT Polyelectrolytes
 (water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

IT 58130-03-3DP, GP 478, polymers with acryloyldimethyltaurate, reaction products with acrylic acid-vinylcaprolactam copolymers
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (GP-446; water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

IT 79-41-4DP, Methacrylic acid, esters with ethoxylated C12-14 alcs. or ethoxylated siloxanes
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (polymers, with acryloyldimethyltaurates; water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

IT 79-06-1DP, Acrylamide, copolymers with acryloyldimethyltaurates
 79-10-7DP, Acrylic acid, esters with ethoxylated tallow alcs., polymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam 88-12-0DP, N-Vinyl-2-pyrrolidone, copolymers with acryloyldimethyltaurates 3724-65-0DP, Crotonic acid, esters with polyethylene glycol tallow ethers, polymers with acryloyldimethyltaurates, reaction products with acrylic acid-vinylformamide copolymers 9003-39-8DP, K-30, reaction products with acryloyldimethyltaurate salt polymers 9056-77-3DP, Polyethylene glycol methacrylate, copolymers with acryloyldimethyltaurates, reaction products with acrylic acid-vinylcaprolactam copolymers 15625-89-5DP, TMPTA, comb copolymers with acryloyldimethyltaurates 25189-83-7DP, Poly-N-vinylcaprolactam, reaction products with copolymers of acryloyldimethyltaurates 25852-47-5DP, Polyethylene glycol dimethacrylate, copolymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam 45708-78-9DP, copolymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam 72018-12-3DP, Poly-N-vinylformamide, reaction products with acryloyldimethyltaurate-based polymers 102583-40-4DP, Acrylic acid-N-vinylcaprolactam copolymer, reaction products with acryloyldimethyltaurate-based polymers 134367-40-1DP, Acrylic acid-N-vinylformamide copolymer, reaction products with copolymers of acryloyldimethyltaurates 434286-57-4DP, Ammonium 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonate-ethylene oxide-2-(methacryloyloxy)ethyltrimethylammonium chloride-N-vinyl-2-pyrrolidone graft copolymer, ethers with tallow alcs., reaction products with polyvinylpyrrolidone 434286-58-5DP, copolymers with acryloyldimethyltaurates, reaction products with acrylic acid-vinylcaprolactam copolymers 434286-59-6DP, reaction products with poly-N-vinylformamide 434286-60-9DP, copolymers with acryloyldimethyltaurates, reaction products with polyvinylcaprolactam 435278-26-5DP, ethers with tallow alcs.

RL: IMF (Industrial manufacture); PREP (Preparation)
 (water-soluble and water-swellable copolymers based on acryloyldimethyltaurine acid or its salts)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
 REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE

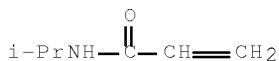
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L40 ANSWER 8 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:224436 HCPLUS Full-text
DOCUMENT NUMBER: 137:6517
TITLE: Polymer *dispersions* as intermediate
state during the synthesis of specialty polymers
Tauer, Klaus; Khrenov, Victor
CORPORATE SOURCE: Max Planck Institute of Colloids and
InterfacesAm Muhlenberg, Golm, D 14476, Germany
SOURCE: Macromolecular Symposia (2002),
179(15th Bratislava International Conference on
Polymers, Non-Conventional Polymer Dispersions,
2001), 27-52
CODEN: MSYMEC; ISSN: 1022-1360
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Heterophase polymerization in combination with ceric ion redox initiation
offers some unique features with respect to the preparation of block
copolymers and block copolymer particles. Various kinds of amphiphilic
multiblock copolymers as well as electrosterically or sterically stabilized
particles are easy accessible. A special feature of these particles is that
they may consists of two different hydrophilic blocks and thus, leading to
particles with a structured hydrophilic shell. The amphiphilic multiblock
copolymers are used to form a new class of polymer *dispersions* by self-
organization so-called polymeric colloidal complexes. In general, the
particles of these complexes are structured and exhibit very often multiple
morphologies. This principle of formation of polymer *colloids* is an easy way
to prepare particles with an unusual morphol. such as Janus-type particles.
Major emphasis was place on the possibilities of the ceric ion redox
initiation with polymeric reductants in combination with aqueous heterophase
polymns. with respect to the preparation of unique block copolymers. Also,
the preparation of polymeric colloidal complexes using these copolymers are
also described.
IT 25189-55-3P, Poly(N-isopropylacrylamide)
120964-16-1P, Acrylic acidmethyl methacrylate block
copolymer 127000-75-3P, Diethylaminoethyl
methacrylate-methyl methacrylate block copolymer
192703-66-5P, N-Isopropylacrylamide-poly(oxyethylene) block
copolymer 214957-23-0P, Ethylene oxide-diethylaminoethyl
methacrylate block copolymer 423126-11-8P,
N-Isopropylacrylamide-N-vinylpyrrolidone block copolymer
432513-86-5P, N-Isopropylacrylamide-diethylaminoethyl
methacrylate block copolymer 432513-87-6P, Ethylene
oxide-N-isopropylacrylamide-styrene block copolymer
RL: PRP (Properties); SPN (Synthetic preparation);
PREP (Preparation)
(polymer *dispersions* as intermediate state during
synthesis of specialty polymers their structural characteristics)
RN 25189-55-3 HCPLUS
CN 2-Propenamide, N-(1-methylethyl)-, homopolymer (CA INDEX NAME)

CM 1

CRN 2210-25-5

CMF C6 H11 N O



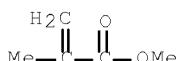
RN 120964-16-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-propenoic acid, block (CA INDEX NAME)

CM 1

CRN 80-62-6

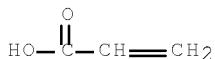
CMF C5 H8 O2



CM 2

CRN 79-10-7

CMF C3 H4 O2



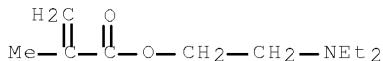
RN 127000-75-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 105-16-8

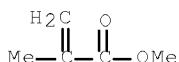
CMF C10 H19 N O2



CM 2

CRN 80-62-6

CMF C5 H8 O2



RN 192703-66-5 HCAPLUS

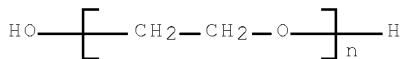
CN 2-Propenamide, N-(1-methylethyl)-, polymer with
α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl), block (9CI)
(CA INDEX NAME)

CM 1

CRN 25322-68-3

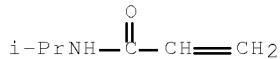
CMF (C₂ H₄ O)_n H₂ O

CCI PMS



CM 2

CRN 2210-25-5

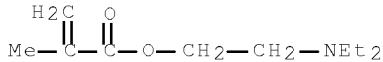
CMF C₆ H₁₁ N O

RN 214957-23-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer
with oxirane, block (CA INDEX NAME)

CM 1

CRN 105-16-8

CMF C₁₀ H₁₉ N O₂

CM 2

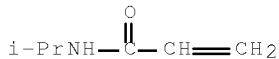
CRN 75-21-8

CMF C₂ H₄ O

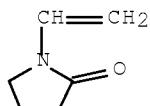
RN 423126-11-8 HCAPLUS

CN 2-Propenamide, N-(1-methylethyl)-, polymer with
1-ethenyl-2-pyrrolidinone, block (9CI) (CA INDEX NAME)

CM 1

CRN 2210-25-5
CMF C6 H11 N O

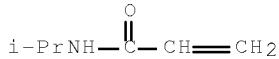
CM 2

CRN 88-12-0
CMF C6 H9 N O

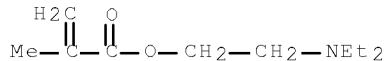
RN 432513-86-5 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with N-(1-methylethyl)-2-propenamide, block (CA INDEX NAME)

CM 1

CRN 2210-25-5
CMF C6 H11 N O

CM 2

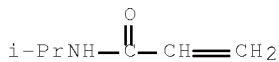
CRN 105-16-8
CMF C10 H19 N O2

RN 432513-87-6 HCPLUS

CN 2-Propenamide, N-(1-methylethyl)-, polymer with ethenylbenzene and oxirane, block (9CI) (CA INDEX NAME)

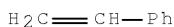
CM 1

CRN 2210-25-5
 CMF C6 H11 N O



CM 2

CRN 100-42-5
 CMF C8 H8



CM 3

CRN 75-21-8
 CMF C2 H4 O



IT 432513-85-4, Ethylene oxide-N-Isopropylacrylamide-methyl methacrylate block copolymer 842126-31-2

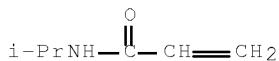
RL: CAT (Catalyst use); USES (Uses)
 (triblock; polymer dispersions as intermediate state
 during synthesis of specialty polymers their structural
 characteristics)

RN 432513-85-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 N-(1-methylethyl)-2-propenamide and oxirane, block (9CI) (CA INDEX
 NAME)

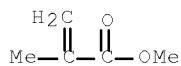
CM 1

CRN 2210-25-5
 CMF C6 H11 N O



CM 2

CRN 80-62-6
 CMF C5 H8 O2

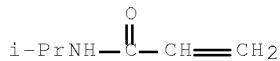


CM 3

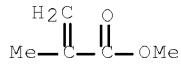
CRN 75-21-8
CMF C2 H4 O

RN 842126-31-2 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 N-(1-methylethyl)-2-propenamide and oxirane, triblock (9CI) (CA
 INDEX NAME)

CM 1

CRN 2210-25-5
CMF C6 H11 N O

CM 2

CRN 80-62-6
CMF C5 H8 O2

CM 3

CRN 75-21-8
CMF C2 H4 O

CC 35-7 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37

ST specialty polymer synthesis heterophase polymn polymer
dispersion intermediate; block copolymer synthesis ceric ion
polymer polymn initiation; polymeric colloidal complex
intermediate specialty polymer synthesis

IT Polymerization
Polymerization catalysts
(block; polymer dispersions as intermediate state
during synthesis of specialty polymers their structural
characteristics)

IT Polyoxyalkylenes, uses
RL: CAT (Catalyst use); USES (Uses)
(cerium colloidal complexes, initiator; polymer
dispersions as intermediate state during synthesis of
specialty polymers their structural characteristics)

IT Thickness
(corona; polymer dispersions as intermediate state
during synthesis of specialty polymers their structural
characteristics)

IT Particles
(hairy; polymer dispersions as intermediate state
during synthesis of specialty polymers their structural
characteristics)

IT Polymer chains
(hydrodynamic radius of; polymer dispersions as
intermediate state during synthesis of specialty polymers their
structural characteristics)

IT Polymer morphology
(phase; polymer dispersions as intermediate state
during synthesis of specialty polymers their structural
characteristics)

IT Aggregation
Micelles
Polyelectrolytes
Polymer morphology
Radius of gyration
(polymer dispersions as intermediate state during
synthesis of specialty polymers their structural characteristics)

IT Polymerization
(radical, heterophase; polymer dispersions as
intermediate state during synthesis of specialty polymers their
structural characteristics)

IT 2210-25-5DP, N-Isopropylacrylamide, polymers with styrenesulfonates
and styrene, block 26914-43-2DP, Styrenesulfonic acid,
salts, polymers with N-isopropylacrylamide and styrene,
block
RL: PRP (Properties); SPN (Synthetic preparation); PREP
(Preparation)
(di- and triblock; polymer dispersions as intermediate
state during synthesis of specialty polymers their structural
characteristics)

IT 7440-45-1D, Cerium, PEG colloidal complexes 15078-94-1, Cerium
ammonium nitrate 25322-68-3D, Poly(ethylene glycol), cerium
colloidal complexes
RL: CAT (Catalyst use); USES (Uses)
(initiator; polymer dispersions as
intermediate state during synthesis of specialty polymers their
structural characteristics)

IT 7647-14-5, Sodium chloride, uses

RL: NUU (Other use, unclassified); USES (Uses)
 (medium; polymer dispersions as intermediate state
 during synthesis of specialty polymers their structural
 characteristics)

IT 75-21-8DP, Ethylene oxide, polymers with
 acrylamidopropanesulfonates, block 79-41-4DP, Methacrylic acid,
 polymers with tert-Bu methacrylate and styrenesulfonates, block
 80-62-6DP, Methyl methacrylate, polymers with styrene and
 styrenesulfonates, block 100-42-5DP, Styrene, polymers with Me
 methacrylate and styrenesulfonates, block 106-91-2DP, Glycidyl
 methacrylate, polymers with styrenesulfonates and
 isopropylacrylamide, block 112-02-7DP, Cetyl trimethylammonium
 chloride, colloidal complexes with ethylene oxide-styrenesulfonates
 diblock copolymer 140-88-5DP, Ethyl acrylate, polymer with
 styrenesulfonates, methacrylic acid, and isopropylacrylamide, block
 585-07-9DP, Tert-Butyl methacrylate, polymers with styrenesulfonates
 and methacrylic acid, block 2210-25-5DP, N-Isopropylacrylamide,
 polymers with styrene sulfonates, ethylene oxide, and acrylates,
 block 5896-54-8DP, E 30, colloidal complexes with diallyl di-Me
 ammonium chloride-ethylene oxide block copolymer
 25109-55-3P, Poly(N-isopropylacrylamide) 26914-43-2DP,
 Styrenesulfonic acid, salts, polymers with
 isopropylacrylamide, styrene, and acrylates, block 33028-26-1DP,
 2-Acrylamidopropanesulfonic acid, salts, polymers with
 isopropylacrylamide or ethylene oxide, block 120964-16-1P
 , Acrylic acidmethyl methacrylate block copolymer
 127000-75-3P, Diethylaminoethyl methacrylate-methyl
 methacrylate block copolymer 192703-66-5P,
 N-Isopropylacrylamide-poly(oxyethylene) block copolymer
 204906-33-2DP, Diallyl dimethyl ammonium chloride-ethylene oxide
 block copolymer, colloidal complexes with
 N-isopropylacrylamide-styrenesulfonates diblock copolymer or sodium
 alkyl sulfonate 214957-23-0P, Ethylene
 oxide-diethylaminoethyl methacrylate block copolymer
 423126-11-8P, N-Isopropylacrylamide-N-vinylpyrrolidone block
 copolymer 432513-86-5P,
 N-Isopropylacrylamide-diethylaminoethyl methacrylate block copolymer
 432513-87-6P, Ethylene oxide-N-isopropylacrylamide-styrene
 block copolymer
 RL: PRP (Properties); SPN (Synthetic preparation);
 PREP (Preparation)
 (polymer dispersions as intermediate state during
 synthesis of specialty polymers their structural characteristics)

IT 432513-85-4, Ethylene oxide-N-Isopropylacrylamide-methyl
 methacrylate block copolymer 842126-31-2
 RL: CAT (Catalyst use); USES (Uses)
 (triblock; polymer dispersions as intermediate state
 during synthesis of specialty polymers their structural
 characteristics)

IT 100-42-5DP, Styrene, polymers with N-isopropylacrylamide and
 styrenesulfonates, block
 RL: PRP (Properties); SPN (Synthetic preparation); PREP
 (Preparation)
 (triblock; polymer dispersions as intermediate state
 during synthesis of specialty polymers their structural
 characteristics)

OS.CITING REF COUNT: 21 THERE ARE 21 CAPLUS RECORDS THAT CITE THIS
 RECORD (21 CITINGS)

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE

IN THE RE FORMAT

L40 ANSWER 9 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:347156 HCPLUS Full-text
 DOCUMENT NUMBER: 134:368377
 TITLE: Oil-based ink for electrostatic ink-jet printing
 INVENTOR(S): Kato, Eichi
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2001131455	A	20010515	JP 2000-255846	200008
				25

PRIORITY APPLN. INFO.: JP 1999-238824 A
 <--
 199908
 25

<--

AB Title ink-jet ink, with good discharging stability as well as image brightness and strength for multiple printing, is prepared by dispersing in a nonaq. solution having elec. resistivity of $\geq 10^9 \Omega\text{-cm}$ and permittivity of ≤ 3.5 , with particles prepared from a solution containing (A) monofunctional monomers, which are soluble in a nonaq. solvent but the resulted copolymer of which not, (B) amino-containing monofunctional monomers (copolymerizable with A), (C) SO_3^- and/or SO_2H -containing monofunctional monomers (copolymerizable with A), (D) monofunctional macromonomers having main chains composed of specific repeat units with a terminal polymerizable double-bond group at one end, and (E) a star-type copolymer.

IT 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester 139104-87-3P
 139104-90-8P 139105-03-6P 139105-08-1P
 139105-12-7P 141414-99-5P 141415-72-7P
 214835-07-1P 215877-54-6P 215877-61-5P
 217076-83-0P 333362-05-3P 339334-13-3P
 339334-16-6P 339334-20-2P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
 (macromer; preparation of oil-based ink for electrostatic ink-jet printing)

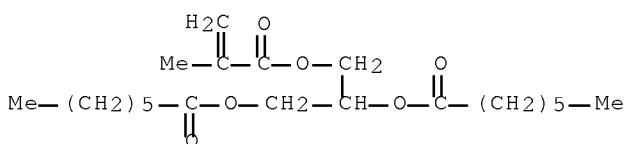
RN 138005-15-9 HCPLUS

CN Heptanoic acid, 1-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 124322-34-5

CMF C21 H36 O6

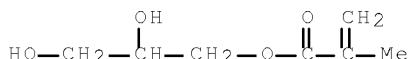


RN 139104-87-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4
CMF C7 H12 04



CM 2

CRN 164848-41-3
CMF (C16 H30 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0
CMF C3 H6 O2 S

$$\text{HS}-\text{CH}_2-\text{CH}_2-\text{CO}_2\text{H}$$

CM 4

CRN 25719-52-2
CMF (C16 H30 O2) x
CCI PMS

CM 5

CRN 142-90-5
CMF C16 H30 02



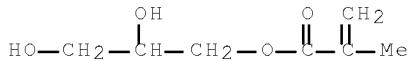
BN 139104-90-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, hexadecyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

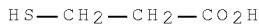
CRN 164848-43-5

CMF (C20 H38 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 25986-80-5

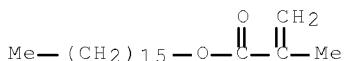
CMF (C20 H38 O2)x

CCI PMS

CM 5

CRN 2495-27-4

CMF C20 H38 O2



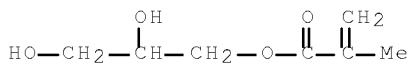
RN 139105-03-6 HCPLUS

CN 2-Propenoic acid, octadecyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

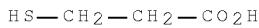
CRN 164848-45-7

CMF (C21 H40 O2)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 25986-77-0

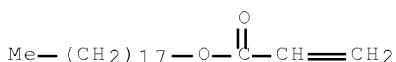
CMF (C21 H40 O2)x

CCI PMS

CM 5

CRN 4813-57-4

CMF C21 H40 O2



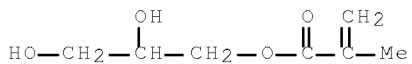
RN 139105-08-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, octadecyl ester, telomer with
3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propen-1-
yl)oxy]propyl ester (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4

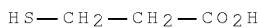


CM 2

CRN 164848-44-6
 CMF (C₂₂ H₄₂ O₂)_x . C₃ H₆ O₂ S

CM 3

CRN 107-96-0
 CMF C₃ H₆ O₂ S

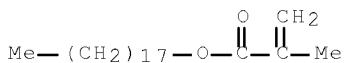


CM 4

CRN 25639-21-8
 CMF (C₂₂ H₄₂ O₂)_x
 CCI PMS

CM 5

CRN 32360-05-7
 CMF C₂₂ H₄₂ O₂

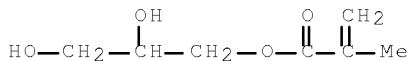


RN 139105-12-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, tridecyl ester, telomer with
 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4
 CMF C₇ H₁₂ O₄

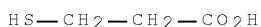


CM 2

CRN 164848-42-4
 CMF (C₁₇ H₃₂ O₂)_x . C₃ H₆ O₂ S

CM 3

CRN 107-96-0
 CMF C₃ H₆ O₂ S

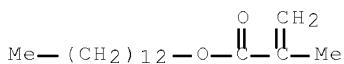


CM 4

CRN 41630-11-9
 CMF (C17 H32 O2)x
 CCI PMS

CM 5

CRN 2495-25-2
 CMF C17 H32 O2

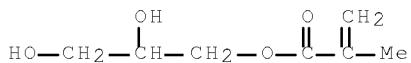


RN 141414-99-5 HCAPLUS

CN Heptanoic acid, 1-[(1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4
 CMF C7 H12 O4

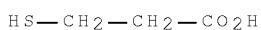


CM 2

CRN 165892-37-5
 CMF (C20 H34 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0
 CMF C3 H6 O2 S



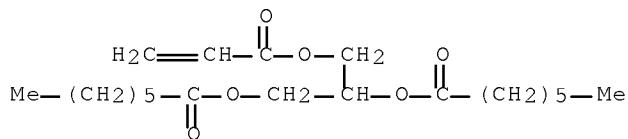
CM 4

CRN 165892-36-4

CMF (C20 H34 O6)x
 CCI PMS

CM 5

CRN 141657-06-9
 CMF C20 H34 O6

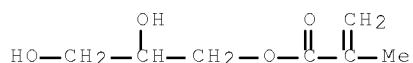


RN 141415-72-7 HCAPLUS

CN 2-Propenoic acid, 2-[3-(octylsulfonyl)-1-oxopropoxy]ethyl ester,
 telomer with 3-mercaptopropanoic acid,
 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA
 INDEX NAME)

CM 1

CRN 5919-74-4
 CMF C7 H12 O4

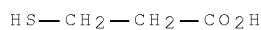


CM 2

CRN 165892-39-7
 CMF (C16 H28 O6 S)x . C3 H6 O2 S

CM 3

CRN 107-96-0
 CMF C3 H6 O2 S

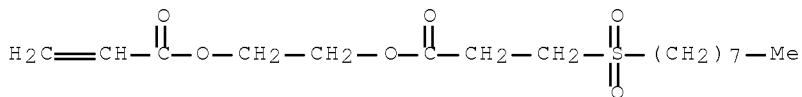


CM 4

CRN 165892-38-6
 CMF (C16 H28 O6 S)x
 CCI PMS

CM 5

CRN 141657-16-1
 CMF C16 H28 O6 S

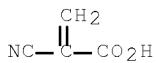


RN 214835-07-1 HCPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, telomer with
 2-mercaptopropanoic acid and octadecyl 2-propenoate, 2-cyano-2-propenoate
 (9CI) (CA INDEX NAME)

CM 1

CRN 15802-18-3
 CMF C4 H3 N O2



CM 2

CRN 214835-04-8
 CMF (C21 H40 O2 . C16 H30 O2)x . C2 H6 O S

CM 3

CRN 60-24-2
 CMF C2 H6 O S

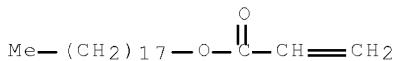


CM 4

CRN 140693-68-1
 CMF (C21 H40 O2 . C16 H30 O2)x
 CCI PMS

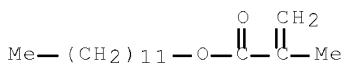
CM 5

CRN 4813-57-4
 CMF C21 H40 O2



CM 6

CRN 142-90-5
 CMF C16 H30 O2

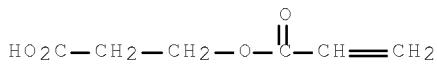


RN 215877-54-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, tetradecyl ester, telomer with
 2-mercaptopropanoate (9CI) (CA INDEX NAME)

CM 1

CRN 24615-84-7
 CMF C6 H8 O4



CM 2

CRN 215877-53-5
 CMF (C18 H34 O2)x . C2 H6 O S

CM 3

CRN 60-24-2
 CMF C2 H6 O S

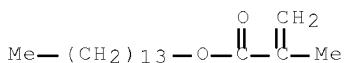


CM 4

CRN 30525-99-6
 CMF (C18 H34 O2)x
 CCI PMS

CM 5

CRN 2549-53-3
 CMF C18 H34 O2



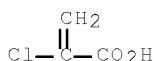
RN 215877-61-5 HCPLUS

CN 2-Propenoic acid, 2-methyl-, eicosyl ester, telomer with
2-mercaptopropanoic acid, 2-chloro-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 598-79-8

CMF C3 H3 Cl O2



CM 2

CRN 215877-60-4

CMF (C24 H46 O2)x . C2 H6 O S

CM 3

CRN 60-24-2

CMF C2 H6 O S



CM 4

CRN 87625-18-1

CMF (C24 H46 O2)x

CCI PMS

CM 5

CRN 45294-18-6

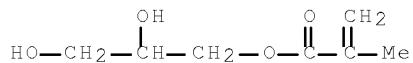
CMF C24 H46 O2



RN 217076-83-0 HCPLUS

CN Butanedioic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl nonyl
ester, telomer with 3-mercaptopropanoic acid,
2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA
INDEX NAME)

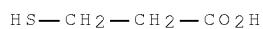
CM 1

CRN 5919-74-4
CMF C7 H12 O4

CM 2

CRN 217076-82-9
CMF (C19 H32 O6)x . C3 H6 O2 S

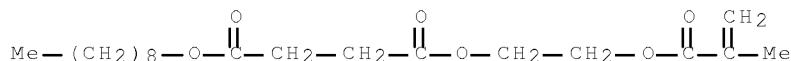
CM 3

CRN 107-96-0
CMF C3 H6 O2 S

CM 4

CRN 217076-81-8
CMF (C19 H32 O6)x
CCI PMS

CM 5

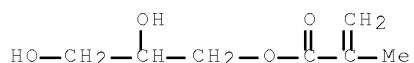
CRN 215672-75-6
CMF C19 H32 O6

RN 333362-05-3 HCAPLUS

CN Pentanedioic acid, decyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4
CMF C7 H12 O4



CM 2

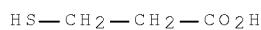
CRN 333362-04-2

CMF (C21 H36 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 333362-03-1

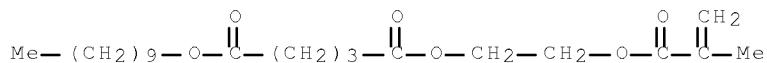
CMF (C21 H36 O6)x

CCI PMS

CM 5

CRN 333362-02-0

CMF C21 H36 O6



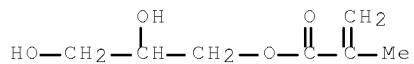
RN 339334-13-3 HCAPLUS

CN 2-Butenedioic acid, dodecyl 2-[(1-oxo-2-propenyl)oxy]ethyl ester,
 telomer with 3-mercaptopropanoic acid,
 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA
 INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

September 12, 2009

10/591,796

75

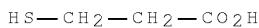
CRN 339334-12-2

CMF (C21 H34 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S



CM 4

CRN 339334-11-1

CMF (C21 H34 O6)x

CCI PMS

CM 5

CRN 339275-42-2

CMF C21 H34 O6



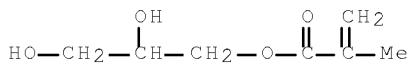
RN 339334-16-6 HCPLUS

CN Hexanoic acid, 3-[(2-methyl-1-oxo-2-propenyl)oxy]-2-[(1-oxopentyl)oxy]propyl ester, telomer with 3-mercaptopropanoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

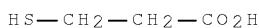
CRN 339334-15-5

CMF (C18 H30 O6)x . C3 H6 O2 S

CM 3

CRN 107-96-0

CMF C3 H6 O2 S

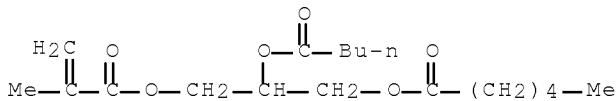


CM 4

CRN 339334-14-4
 CMF (C18 H30 O6)x
 CCI PMS

CM 5

CRN 339275-45-5
 CMF C18 H30 O6

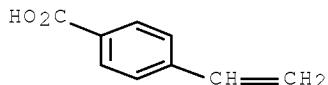


RN 339334-20-2 HCAPLUS

CN Undecanoic acid, 19-[(2-methyl-1-oxo-2-propenyl)oxy]nonadecyl ester, telomer with 2-mercaptoproethanol, 4-ethenylbenzoate (9CI) (CA INDEX NAME)

CM 1

CRN 1075-49-6
 CMF C9 H8 O2



CM 2

CRN 339334-19-9
 CMF (C34 H64 O4)x . C2 H6 O S

CM 3

CRN 60-24-2
 CMF C2 H6 O S



CM 4

CRN 339334-18-8
 CMF (C₃₄ H₆₄ O₄)_x
 CCI PMS

CM 5

CRN 339334-17-7
 CMF C₃₄ H₆₄ O₄



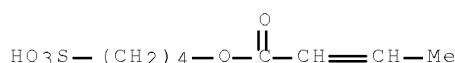
IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl acetate graft copolymer 339275-36-4P, Dodecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-37-5P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate-tridecyl methacrylate graft copolymer 339275-38-6P, Hexadecyl methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft copolymer 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl methacrylate graft copolymer 339275-40-0P
 339275-41-1P 339275-43-3P 339275-44-4P
 339275-46-6P 339275-47-7P 339275-48-8P
 339275-49-9P 339275-50-2P 339275-51-3P
 339275-52-4P 339275-53-5P 339275-55-7P
 339275-57-9P 339275-59-1P 339275-61-5P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of oil-based ink for electrostatic ink-jet printing)

RN 339275-35-3 HCPLUS

CN 2-Butenoic acid, 2-(diethylamino)ethyl ester, polymer with ethenyl acetate, octadecyl 2-methyl-2-propenoate and 4-sulfobutyl 2-butenoate, graft (9CI) (CA INDEX NAME)

CM 1

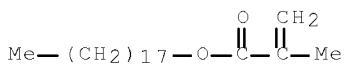
CRN 339275-34-2
 CMF C₈ H₁₄ O₅ S



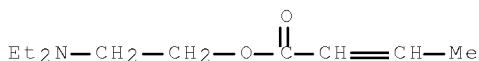
CM 2

CRN 32360-05-7

CMF C22 H42 O2



CM 3

CRN 10369-84-3
CMF C10 H19 N O2

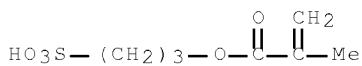
CM 4

CRN 108-05-4
CMF C4 H6 O2

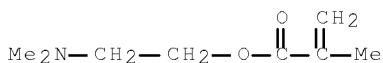
RN 339275-36-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

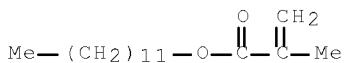
CM 1

CRN 7582-21-0
CMF C7 H12 O5 S

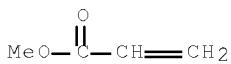
CM 2

CRN 2867-47-2
CMF C8 H15 N O2

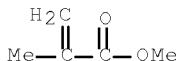
CM 3

CRN 142-90-5
CMF C16 H30 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

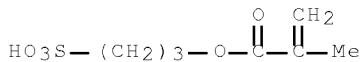
CM 5

CRN 80-62-6
CMF C5 H8 O2

RN 339275-37-5 HCAPLUS

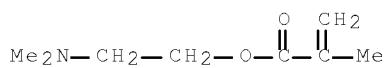
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 3-sulfopropyl 2-methyl-2-propenoate and tridecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

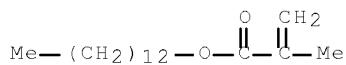
CRN 7582-21-0
CMF C7 H12 O5 S

CM 2

CRN 2867-47-2
CMF C8 H15 N O2



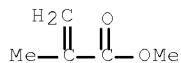
CM 3

CRN 2495-25-2
CMF C17 H32 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

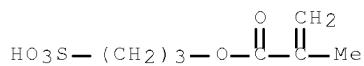
CM 5

CRN 80-62-6
CMF C5 H8 O2

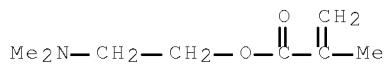
RN 339275-38-6 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with hexadecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

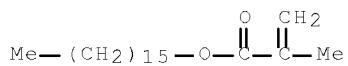
CM 1

CRN 7582-21-0
CMF C7 H12 O5 S

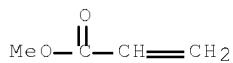
CM 2

CRN 2867-47-2
CMF C8 H15 N O2

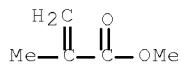
CM 3

CRN 2495-27-4
CMF C20 H38 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

CM 5

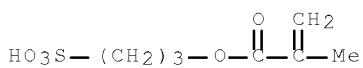
CRN 80-62-6
CMF C5 H8 O2

RN 339275-39-7 HCAPLUS

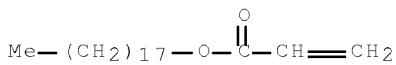
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, octadecyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

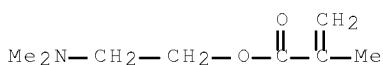
CRN 7582-21-0
CMF C7 H12 O5 S



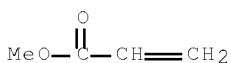
CM 2

CRN 4813-57-4
CMF C21 H40 O2

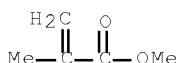
CM 3

CRN 2867-47-2
CMF C8 H15 N O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

CM 5

CRN 80-62-6
CMF C5 H8 O2

RN 339275-40-0 HCPLUS

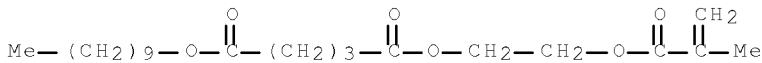
CN Pentanedioic acid, decyl 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl

2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 333362-02-0

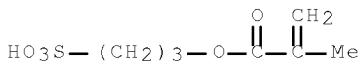
CMF C21 H36 O6



CM 2

CRN 7582-21-0

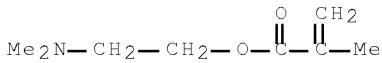
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

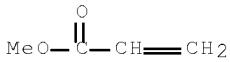
CMF C8 H15 N O2



CM 4

CRN 96-33-3

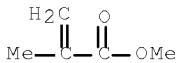
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



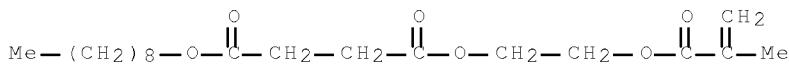
RN 339275-41-1 HCPLUS

CN Butanedioic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl nonyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 215672-75-6

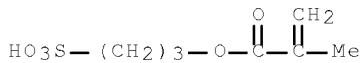
CMF C19 H32 O6



CM 2

CRN 7582-21-0

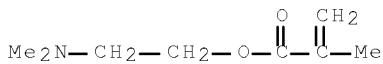
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

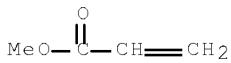
CMF C8 H15 N O2



CM 4

CRN 96-33-3

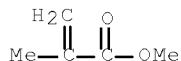
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 339275-43-3 HCPLUS

CN 2-Butenedioic acid, dodecyl 2-[(1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 339275-42-2

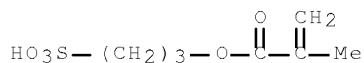
CMF C21 H34 O6



CM 2

CRN 7582-21-0

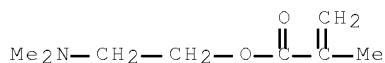
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

CMF C8 H15 N O2



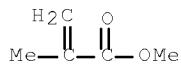
CM 4

CRN 96-33-3

CMF C4 H6 O2



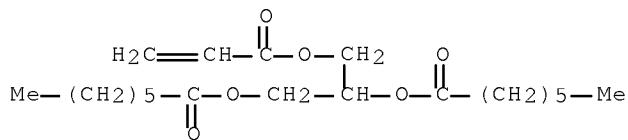
CM 5

CRN 80-62-6
CMF C5 H8 O2

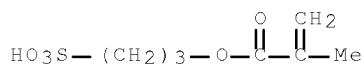
RN 339275-44-4 HCPLUS

CN Heptanoic acid, 1-[(1-oxo-2-propenyl)oxy]methyl]-1,2-ethanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

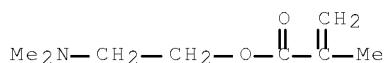
CM 1

CRN 141657-06-9
CMF C20 H34 O6

CM 2

CRN 7582-21-0
CMF C7 H12 O5 S

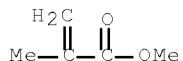
CM 3

CRN 2867-47-2
CMF C8 H15 N O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

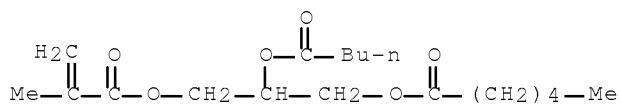
CM 5

CRN 80-62-6
CMF C5 H8 O2

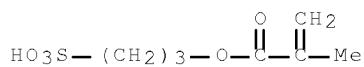
RN 339275-46-6 HCPLUS

CN Hexanoic acid, 3-[(2-methyl-1-oxo-2-propenyl)oxy]-2-[(1-oxopentyl)oxy]propyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 339275-45-5
CMF C18 H30 O6

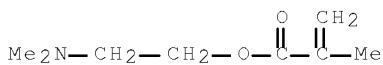
CM 2

CRN 7582-21-0
CMF C7 H12 O5 S

CM 3

CRN 2867-47-2

CMF C8 H15 N O2



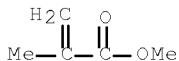
CM 4

CRN 96-33-3
CMF C4 H6 O2



CM 5

CRN 80-62-6
CMF C5 H8 O2

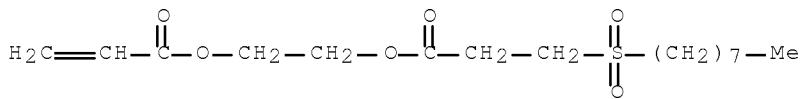


RN 339275-47-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 2-[3-(octylsulfonyl)-1-oxopropoxy]ethyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

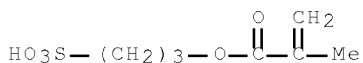
CM 1

CRN 141657-16-1
CMF C16 H28 06 S



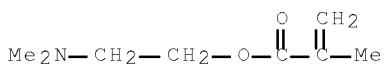
CM 2

CRN 7582-21-0
CMF C7 H12 05 S



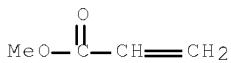
CM 3

CRN 2867-47-2
 CMF C8 H15 N O2



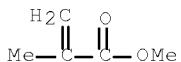
CM 4

CRN 96-33-3
 CMF C4 H6 O2



CM 5

CRN 80-62-6
 CMF C5 H8 O2

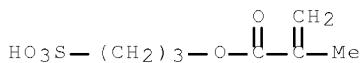


RN 339275-48-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 3-sulfopropyl 2-methyl-2-propenoate and tetradecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 7582-21-0
 CMF C7 H12 O5 S



September 12, 2009

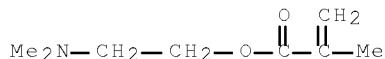
10/591,796

90

CM 2

CRN 2867-47-2

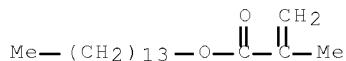
CMF C8 H15 N O2



CM 3

CRN 2549-53-3

CMF C18 H34 O2



CM 4

CRN 96-33-3

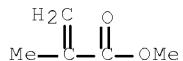
CMF C4 H6 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



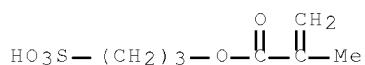
RN 339275-49-9 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate, octadecyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

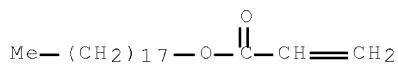
CRN 7582-21-0

CMF C7 H12 O5 S



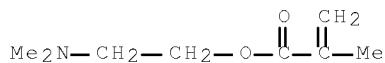
CM 2

CRN 4813-57-4
 CMF C21 H40 O2



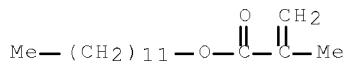
CM 3

CRN 2867-47-2
 CMF C8 H15 N O2



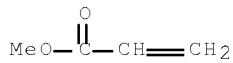
CM 4

CRN 142-90-5
 CMF C16 H30 O2



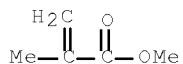
CM 5

CRN 96-33-3
 CMF C4 H6 O2



CM 6

CRN 80-62-6
 CMF C5 H8 O2



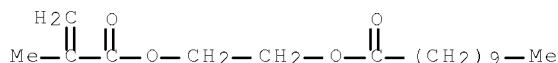
RN 339275-50-2 HCAPLUS

CN Undecanoic acid, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 139720-83-5

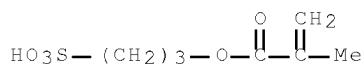
CMF C17 H30 04



CM 2

CRN 7582-21-0

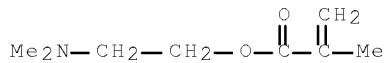
CMF C7 H12 O5 S



CM 3

CRN 2867-47-2

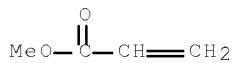
CMF C8 H15 N O2



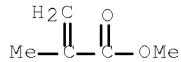
CM 4

CRN 96-33-3

CMF C4 H6 O2



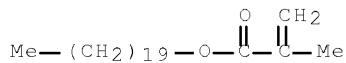
CM 5

CRN 80-62-6
CMF C5 H8 O2

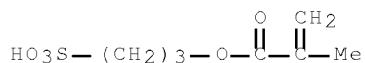
RN 339275-51-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with eicosyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

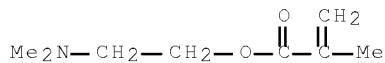
CM 1

CRN 45294-18-6
CMF C24 H46 O2

CM 2

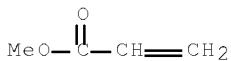
CRN 7582-21-0
CMF C7 H12 O5 S

CM 3

CRN 2867-47-2
CMF C8 H15 N O2

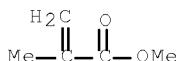
CM 4

CRN 96-33-3
CMF C4 H6 O2



CM 5

CRN 80-62-6
CMF C5 H8 O2

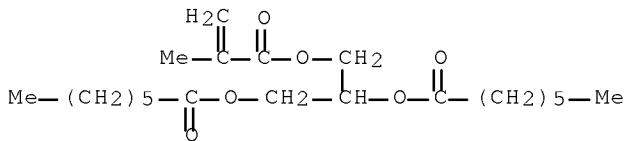


RN 339275-52-4 HCAPLUS

CN Heptanoic acid, 1-[(2-methyl-1-oxo-2-propenyl)oxymethyl]-1,2-ethanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

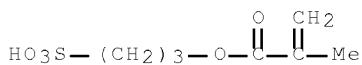
CM 1

CRN 124322-34-5
CMF C21 H36 06



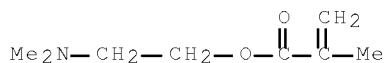
CM 2

CRN 7582-21-0
CMF C7 H12 05 S

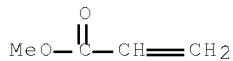


CM 3

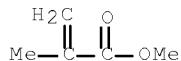
CRN 2867-47-2
CMF C8 H15 N 02



CM 4

CRN 96-33-3
CMF C4 H6 O2

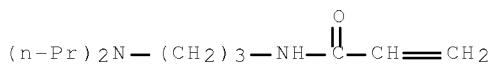
CM 5

CRN 80-62-6
CMF C5 H8 O2

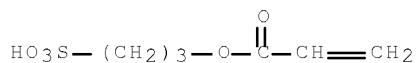
RN 339275-53-5 HCPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
N-[3-(dipropylamino)propyl]-2-propenamide, methyl
2-methyl-2-propenoate, methyl 2-propenoate and 3-sulfopropyl
2-propenoate, graft (9CI) (CA INDEX NAME)

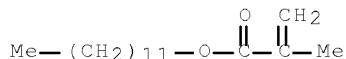
CM 1

CRN 65699-81-2
CMF C12 H24 N2 O

CM 2

CRN 39121-78-3
CMF C6 H10 O5 S

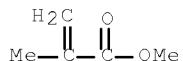
CM 3

CRN 142-90-5
CMF C16 H30 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

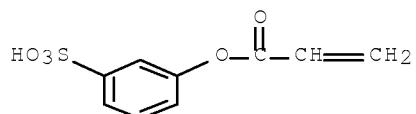
CM 5

CRN 80-62-6
CMF C5 H8 O2

RN 339275-55-7 HCPLUS

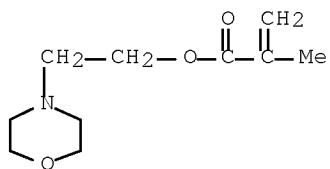
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate, methyl 2-propenoate, 2-(4-morpholinyl)ethyl 2-methyl-2-propenoate and 3-sulfophenyl 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

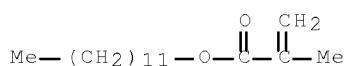
CRN 339275-54-6
CMF C9 H8 O5 S

CM 2

CRN 2997-88-8
CMF C10 H17 N O3



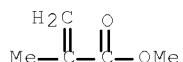
CM 3

CRN 142-90-5
CMF C16 H30 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

CM 5

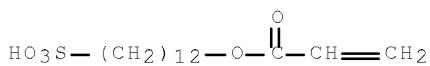
CRN 80-62-6
CMF C5 H8 O2

RN 339275-57-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate, 2-[[2-[methyl(phenylmethyl)amino]ethoxy]carbonyl]amino]ethyl 2-methyl-2-propenoate, methyl 2-propenoate and 12-sulfododecyl 2-propenoate, graft (9CI) (CA INDEX NAME)

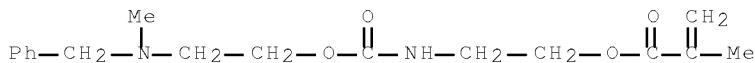
CM 1

CRN 339275-56-8
CMF C15 H28 O5 S



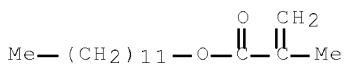
CM 2

CRN 305814-19-1
 CMF C17 H24 N2 O4



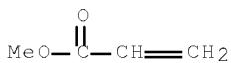
CM 3

CRN 142-90-5
 CMF C16 H30 O2



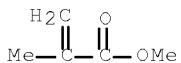
CM 4

CRN 96-33-3
 CMF C4 H6 O2



CM 5

CRN 80-62-6
 CMF C5 H8 O2

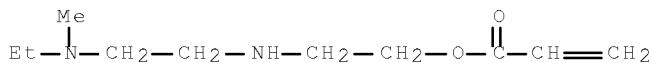


RN 339275-59-1 HCPLUS

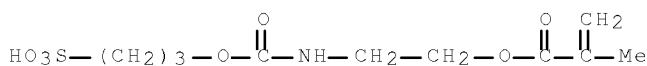
CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 2-[(2-(ethylmethylamino)ethyl]amino]ethyl 2-propenoate, methyl
 2-methyl-2-propenoate, methyl 2-propenoate and
 2-[(3-sulfopropoxy)carbonyl]amino]ethyl 2-methyl-2-propenoate,

graft (9CI) (CA INDEX NAME)

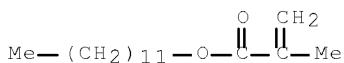
CM 1

CRN 339275-58-0
CMF C10 H20 N2 O2

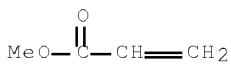
CM 2

CRN 333407-08-2
CMF C10 H17 N O7 S

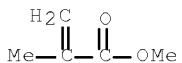
CM 3

CRN 142-90-5
CMF C16 H30 O2

CM 4

CRN 96-33-3
CMF C4 H6 O2

CM 5

CRN 80-62-6
CMF C5 H8 O2

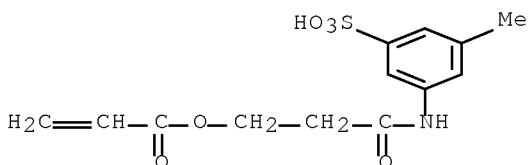
RN 339275-61-5 HCPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 N-[4-(dimethylamino)phenyl]-N-methyl-2-propenamide, methyl
 2-methyl-2-propenoate, methyl 2-propenoate and
 3-[(3-methyl-5-sulfophenyl)amino]-3-oxopropyl 2-propenoate, graft
 (9CI) (CA INDEX NAME)

CM 1

CRN 339275-60-4

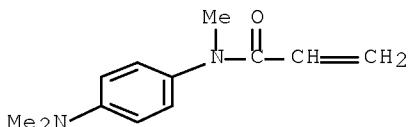
CMF C13 H15 N O6 S



CM 2

CRN 107314-56-7

CMF C12 H16 N2 O



CM 3

CRN 142-90-5

CMF C16 H30 O2



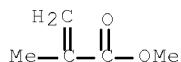
CM 4

CRN 96-33-3

CMF C4 H6 O2

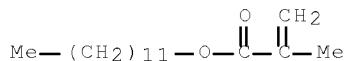


CM 5

CRN 80-62-6
CMF C5 H8 O2

IT 25719-52-2, Polydodecylmethacrylate
 RL: MOA (Modifier or additive use); USES (Uses)
 (preparation of oil-based ink for electrostatic ink-jet printing)
 RN 25719-52-2 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, dodecyl ester, homopolymer (CA INDEX NAME)

CM 1

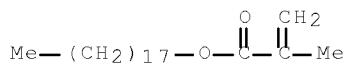
CRN 142-90-5
CMF C16 H30 O2

IT 150469-59-3P 159967-35-8P, Dodecyl
 methacrylate-ethyl acrylate-methyl methacrylate block copolymer
 159967-36-9P, Methyl acrylate-methyl methacrylate-stearyl
 methacrylate block copolymer 159967-46-1P, Hexadecyl
 methacrylate-vinyl acetate-vinyl propionate block copolymer
 159967-47-2P 159967-48-3P 159967-49-4P
 159967-50-7P 159967-51-8P 159967-52-9P
 159967-53-0P 159967-54-1P 159967-55-2P
 216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl
 methacrylate-styrene block copolymer 339569-47-0P
 RL: IMF (Industrial manufacture); POF (Polymer in
 formulation); PRP (Properties); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (star; preparation of oil-based ink for electrostatic ink-jet
 printing)

RN 150469-59-3 HCPLUS
 CN 2-Butenoic acid, polymer with ethenyl acetate and octadecyl
 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

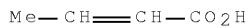
CM 1

CRN 32360-05-7
CMF C22 H42 O2



CM 2

CRN 3724-65-0
 CMF C4 H6 O2



CM 3

CRN 108-05-4
 CMF C4 H6 O2

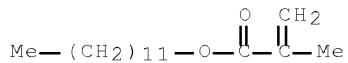


RN 159967-35-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 142-90-5
 CMF C16 H30 O2



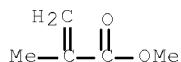
CM 2

CRN 140-88-5
 CMF C5 H8 O2



CM 3

CRN 80-62-6
 CMF C5 H8 O2

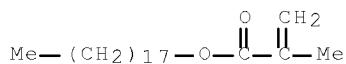


RN 159967-36-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methyl 2-propenoate and octadecyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7
 CMF C22 H42 O2



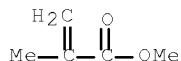
CM 2

CRN 96-33-3
 CMF C4 H6 O2



CM 3

CRN 80-62-6
 CMF C5 H8 O2

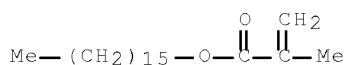


RN 159967-46-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, hexadecyl ester, polymer with ethenyl acetate and ethenyl propanoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 2495-27-4
 CMF C20 H38 O2



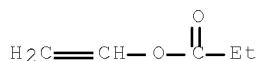
CM 2

CRN 108-05-4
 CMF C4 H6 O2



CM 3

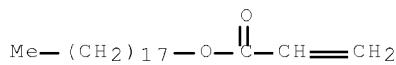
CRN 105-38-4
 CMF C5 H8 O2



RN 159967-47-2 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 1-ethenyl-2-pyrrolidinone, methyl 2-methyl-2-propenoate, methyl
 2-propenoate and octadecyl 2-propenoate, block (9CI) (CA INDEX
 NAME)

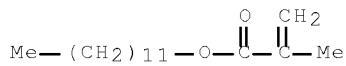
CM 1

CRN 4813-57-4
 CMF C21 H40 O2



CM 2

CRN 142-90-5
 CMF C16 H30 O2



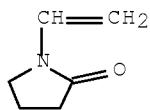
CM 3

CRN 96-33-3
 CMF C4 H6 O2



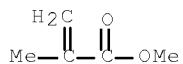
CM 4

CRN 88-12-0
 CMF C6 H9 N O



CM 5

CRN 80-62-6
 CMF C5 H8 O2



RN 159967-48-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, eicosyl ester, polymer with
 phenylmethyl 2-methyl-2-propenoate and 2-propenoic acid, block (9CI)
 (CA INDEX NAME)

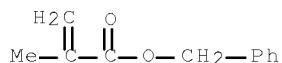
CM 1

CRN 45294-18-6
 CMF C24 H46 O2

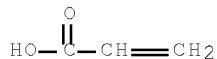


CM 2

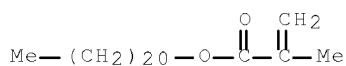
CRN 2495-37-6
 CMF C11 H12 O2



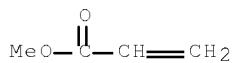
CM 3

CRN 79-10-7
CMF C3 H4 O2RN 159967-49-4 HCPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with heneicosyl
2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and methyl
2-propenoate, block (9CI) (CA INDEX NAME)

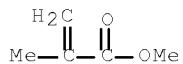
CM 1

CRN 45296-31-9
CMF C25 H48 O2

CM 2

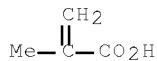
CRN 96-33-3
CMF C4 H6 O2

CM 3

CRN 80-62-6
CMF C5 H8 O2

CM 4

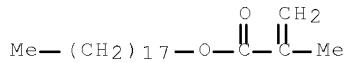
CRN 79-41-4
 CMF C4 H6 O2



RN 159967-50-7 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with octadecyl 2-methyl-2-propenoate and 2-(phosphonoxy)ethyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

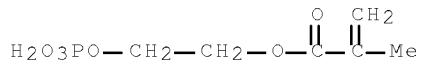
CM 1

CRN 32360-05-7
 CMF C22 H42 O2



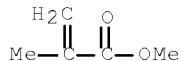
CM 2

CRN 24599-21-1
 CMF C6 H11 O6 P



CM 3

CRN 80-62-6
 CMF C5 H8 O2

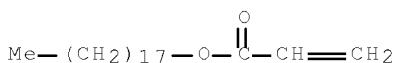


RN 159967-51-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-propenoate and tetradecyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

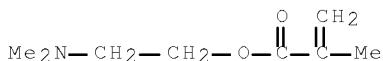
CM 1

CRN 4813-57-4

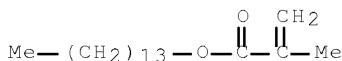
CMF C21 H40 O2



CM 2

CRN 2867-47-2
CMF C8 H15 N O2

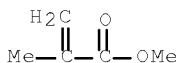
CM 3

CRN 2549-53-3
CMF C18 H34 O2

CM 4

CRN 140-88-5
CMF C5 H8 O2

CM 5

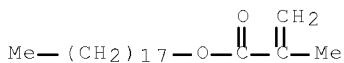
CRN 80-62-6
CMF C5 H8 O2

RN 159967-52-9 HCPLUS

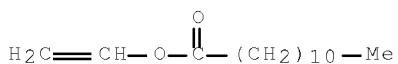
CN Dodecanoic acid, ethenyl ester, polymer with ethenyl acetate, methoxyethene and octadecyl 2-methyl-2-propenoate, block (9CI) (CA

(CA INDEX NAME)

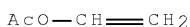
CM 1

CRN 32360-05-7
CMF C22 H42 O2

CM 2

CRN 2146-71-6
CMF C14 H26 O2

CM 3

CRN 108-05-4
CMF C4 H6 O2

CM 4

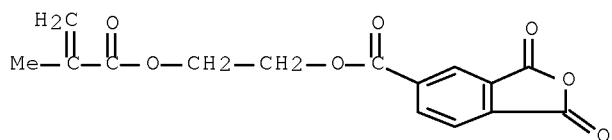
CRN 107-25-5
CMF C3 H6 O

RN 159967-53-0 HCPLUS

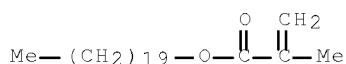
CN 5-Isobenzofurancarboxylic acid, 1,3-dihydro-1,3-dioxo-,
2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with eicosyl
2-methyl-2-propenoate and methyl 2-methyl-2-propenoate, block (9CI)
(CA INDEX NAME)

CM 1

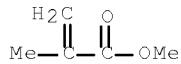
CRN 70293-55-9
CMF C15 H12 O7



CM 2

CRN 45294-18-6
CMF C24 H46 O2

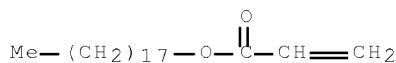
CM 3

CRN 80-62-6
CMF C5 H8 O2

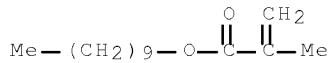
RN 159967-54-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, decyl ester, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate, octadecyl 2-propenoate and 2-propenenitrile, block (9CI) (CA INDEX NAME)

CM 1

CRN 4813-57-4
CMF C21 H40 O2

CM 2

CRN 3179-47-3
CMF C14 H26 O2

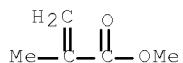
CM 3

CRN 140-88-5
CMF C5 H8 O2

CM 4

CRN 107-13-1
CMF C3 H3 N

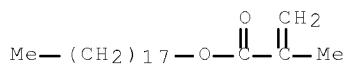
CM 5

CRN 80-62-6
CMF C5 H8 O2

RN 159967-55-2 HCPLUS

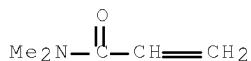
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
N,N-dimethyl-2-propenamide and octadecyl 2-methyl-2-propenoate,
block (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7
CMF C22 H42 O2

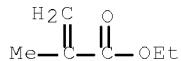
CM 2

CRN 2680-03-7
CMF C5 H9 N O



CM 3

CRN 97-63-2
 CMF C6 H10 O2

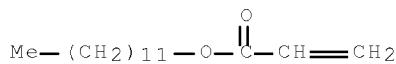


RN 216988-37-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, octadecenyl ester, polymer with dodecyl 2-propenoate, ethenylbenzene and 1-ethenyl-4-methylbenzene, block (9CI) (CA INDEX NAME)

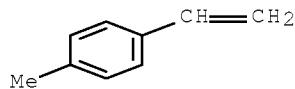
CM 1

CRN 2156-97-0
 CMF C15 H28 O2



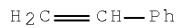
CM 2

CRN 622-97-9
 CMF C9 H10



CM 3

CRN 100-42-5
 CMF C8 H8

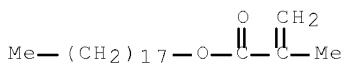


CM 4

CRN 51197-51-4
 CMF C22 H40 O2
 CCI IDS

CM 5

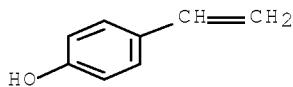
CRN 32360-05-7
 CMF C22 H42 O2



RN 339569-47-0 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, tetradecenyl ester, polymer with
 ethenylbenzene and 4-ethenylphenol, block (9CI) (CA INDEX NAME)

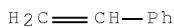
CM 1

CRN 2628-17-3
 CMF C8 H8 O



CM 2

CRN 100-42-5
 CMF C8 H8

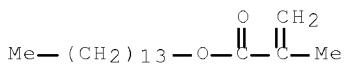


CM 3

CRN 339569-46-9
 CMF C18 H32 O2
 CCI IDS

CM 4

CRN 2549-53-3
 CMF C18 H34 O2



IC ICM C09D011-00
 ICS B41J002-01; B41M005-00
 CC 42-12 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 74
 IT Naphthenic acids, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (cobalt salts; preparation of oil-based ink for
 electrostatic ink-jet printing)
 IT Dispersing agents
 (preparation of oil-based ink for electrostatic ink-jet printing)
 IT 150551-83-0 150551-89-6 150551-92-1 150551-93-2 150551-97-6
 154340-06-4 155293-25-7 159967-38-1 159967-39-2 159967-40-5
 159967-41-6 159967-42-7 159967-43-8 159967-44-9
 RL: CAT (Catalyst use); USES (Uses)
 (initiator; preparation of oil-based ink for electrostatic
 ink-jet printing)
 IT 138005-15-9DP, 4,4'-azobis[4-cyanovaleric acid]-
 initiated, 2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propyl ester 139104-87-3P
 139104-90-8P 139105-03-6P 139105-08-1P
 139105-12-7P 141414-99-5P 141415-72-7P
 214835-07-1P 215877-54-6P 215877-61-5P
 217076-83-0P 333362-05-3P 339334-13-3P
 339334-16-6P 339334-20-2P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP
 (Preparation); RACT (Reactant or reagent)
 (macromer; preparation of oil-based ink for electrostatic ink-jet
 printing)
 IT 339275-35-3P, 2-(N,N-Diethylamino)ethyl
 crotonate-octadecyl methacrylate-4-sulfobutyl crotonate-vinyl
 acetate graft copolymer 339275-36-4P, Dodecyl
 methacrylate-methyl acrylate-2-(N,N-dimethylamino)ethyl
 methacrylate-methyl methacrylate-3-sulfopropyl methacrylate graft
 copolymer 339275-37-5P, Methyl
 acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl
 methacrylate-3-sulfopropyl methacrylate-tridecyl methacrylate graft
 copolymer 339275-38-6P, Hexadecyl methacrylate-methyl
 acrylate-2-(N,N-dimethylamino)ethyl methacrylate-methyl
 methacrylate-3-sulfopropyl methacrylate graft copolymer
 339275-39-7P, Methyl acrylate-2-(N,N-dimethylamino)ethyl
 methacrylate-methyl methacrylate-octadecyl acrylate-3-sulfopropyl
 methacrylate graft copolymer 339275-40-0P
 339275-41-1P 339275-43-3P 339275-44-4P
 339275-46-6P 339275-47-7P 339275-48-8P
 339275-49-9P 339275-50-2P 339275-51-3P
 339275-52-4P 339275-53-5P 339275-55-7P
 339275-57-9P 339275-59-1P 339275-61-5P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP
 (Properties); TEM (Technical or engineered material use); PREP
 (Preparation); USES (Uses)
 (preparation of oil-based ink for electrostatic ink-jet printing)
 IT 2373-23-1 7440-67-7D, Zirconium, dioctylsulfosuccinic acid
 complex, uses 25719-52-2, Polydodecylmethacrylate
 RL: MOA (Modifier or additive use); USES (Uses)
 (preparation of oil-based ink for electrostatic ink-jet printing)
 IT 150469-59-3P 159967-35-8P, Dodecyl
 methacrylate-ethyl acrylate-methyl methacrylate block copolymer
 159967-36-9P, Methyl acrylate-methyl methacrylate-stearyl

methacrylate block copolymer 159967-46-1P, Hexadecyl
 methacrylate-vinyl acetate-vinyl propionate block copolymer
 159967-47-2P 159967-48-3P 159967-49-4P
 159967-50-7P 159967-51-8P 159967-52-9P
 159967-53-0P 159967-54-1P 159967-55-2P
 216988-37-3P, Dodecyl acrylate-4-methylstyrene-octadecenyl
 methacrylate-styrene block copolymer 339569-47-0P
 RL: IMF (Industrial manufacture); POF (Polymer in
 formulation); PRP (Properties); TEM (Technical or engineered
 material use); PREP (Preparation); USES (Uses)
 (star; preparation of oil-based ink for electrostatic ink-jet
 printing)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
 RECORD (1 CITINGS)

L40 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2001:208075 HCAPLUS Full-text
 DOCUMENT NUMBER: 134:242427
 TITLE: Polymeric thickeners for oil-containing
 compositions
 INVENTOR(S): Bitler, Steven P.
 PATENT ASSIGNEE(S): Landec Corporation, USA
 SOURCE: PCT Int. Appl., 15 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
WO 2001019333	A1	20010322	WO 2000-US40780	200008 30 ---
US 7101928	B1	20060905	US 1999-398377	199909 17 ---
EP 1212037	A1	20020612	EP 2000-974063	200008 30 ---
EP 1212037	B1	20081119		---
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 2003509539	T	20030311	JP 2001-522968	200008 30 ---
AT 414503	T	20081215	AT 2000-974063	200008 30 ---
EP 2030608	A1	20090304	EP 2008-168424	200008

30

<--

R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU,
 MC, NL, PT, SE
 US 20050272615 A1 20051208 US 2005-199049

200508
 08

<--

US 20050272618 A1 20051208 US 2005-199508

200508
 08

<--

US 7449511 B2 20081111
 PRIORITY APPLN. INFO.:

US 1999-398377

A
 199909
 17

<--

EP 2000-974063

A3
 200008
 30

<--

WO 2000-US40780

W
 200008
 30

<--

US 2001-810920

A3
 200103
 16

<--

AB Thickeners for oil-containing compns. are side chain crystalline polymers, which (a) are uniformly dispersed in the oil as a crystallized solid, (b) are soluble in the oil at temps. above T_p, and (c) are substantially free of carboxyl groups, carboxyl groups in the form of salts, sulfonic acid groups, and sulfonic acid groups in the form of salts. Polymers were obtained from octadecyl acrylate and 2-hydroxyethyl acrylate in the presence of chain-transfer agents and initiators.

IT 68563-63-3, 2-Hydroxyethyl acrylate-octadecyl acrylate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)

(polymeric thickeners for oil-containing compns.)

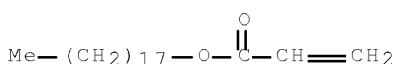
RN 68563-63-3 HCPLUS

CN 2-Propenoic acid, 2-hydroxyethyl ester, polymer with octadecyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 4813-57-4

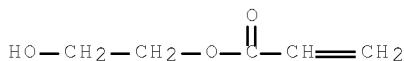
CMF C21 H40 O2



CM 2

CRN 818-61-1

CMF C5 H8 O3



IT 25986-77-0^P, Poly(octadecyl acrylate)
 34364-62-0^P, Methacrylic acid-octadecyl acrylate copolymer
 108573-70-2^P 128406-58-6^P, Octadecyl
 acrylate-1-vinyl-2-pyrrolidone copolymer 330625-75-7^P
 330625-76-8^P

RL: BUU (Biological use, unclassified); SPN (Synthetic
 preparation); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (polymeric thickeners for oil-containing compns.)

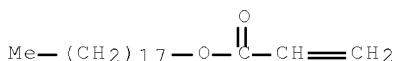
RN 25986-77-0 HCPLUS

CN 2-Propenoic acid, octadecyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 4813-57-4

CMF C21 H40 O2



RN 34364-62-0 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with octadecyl 2-propenoate
 (CA INDEX NAME)

CM 1

CRN 4813-57-4

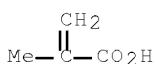
CMF C21 H40 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2

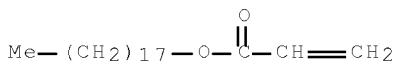


RN 108573-70-2 HCPLUS

CN 2-Propenoic acid, 2-(dimethylamino)ethyl ester, polymer with
octadecyl 2-propenoate (CA INDEX NAME)

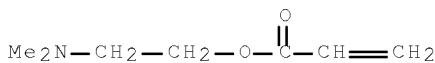
CM 1

CRN 4813-57-4
CMF C21 H40 O2



CM 2

CRN 2439-35-2
CMF C7 H13 N O2

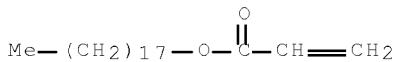


RN 128406-58-6 HCPLUS

CN 2-Propenoic acid, octadecyl ester, polymer with
1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

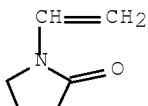
CM 1

CRN 4813-57-4
CMF C21 H40 O2



CM 2

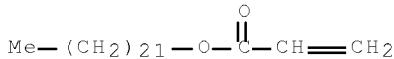
CRN 88-12-0
CMF C6 H9 N O



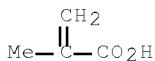
RN 330625-75-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with docosyl 2-propenoate (9CI)
(CA INDEX NAME)

CM 1

CRN 18299-85-9
CMF C25 H48 O2

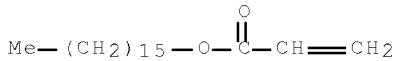
CM 2

CRN 79-41-4
CMF C4 H6 O2

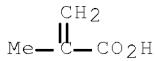
RN 330625-76-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with hexadecyl 2-propenoate
(CA INDEX NAME)

CM 1

CRN 13402-02-3
CMF C19 H36 O2

CM 2

CRN 79-41-4
CMF C4 H6 O2

IC ICM A61K007-48

CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 37

IT 79-10-7D, Acrylic acid, esters, polymers 79-41-4D, MethAcrylic acid, esters, polymers 68563-63-3, 2-Hydroxyethyl acrylate-octadecyl acrylate copolymer

RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)

(polymeric thickeners for oil-containing compns.)

September 12, 2009

10/591,796

120

IT 25996-77-0P, Poly(octadecyl acrylate)
34364-62-0P, Methacrylic acid-octadecyl acrylate copolymer
108573-70-2P 128406-58-6P, Octadecyl
acrylate-1-vinyl-2-pyrrolidone copolymer 330625-75-7P
330625-76-8P

RL: BUU (Biological use, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP
(Preparation); USES (Uses)

(polymeric thickeners for oil-containing compns.)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS
RECORD (9 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L40 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:441697 HCAPLUS Full-text
DOCUMENT NUMBER: 133:81593
TITLE: Improvements in ink-jet media for better drying
times
INVENTOR(S): Baker, Julie; Higgins, John M.; Purbrick,
Malcolm D.
PATENT ASSIGNEE(S): Eastman Kodak Company, USA
SOURCE: PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

WO 2000037259	A1	20000629	WO 1999-GB4223	199912 14

<--

W: JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,
NL, PT, SE

EP 1054775	A1	20001129	EP 1999-959600	199912 14
------------	----	----------	----------------	--------------

<--

EP 1054775	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002532309	T	20021002	JP 2000-589351	199912 14

<--

US 6534157	B1	20030318	US 2000-622462	200009 25
------------	----	----------	----------------	--------------

<--

PRIORITY APPLN. INFO.:		GB 1998-27980	A	199812 19
------------------------	--	---------------	---	--------------

<--

WO 1999-GB4223 W

199912
14

<--

AB An image-recording element for ink-jet ink images comprises a support, an ink-receptive layer and a top layer containing a hydrophilic component and a hydrophobic component, or a mixture of a polymer having ≥ 2 such polymers in an amount 0.003-0.5 g/m². Thus, samples comprised a resin-coated paper support, coated with a gel layer on one side, and a gelatin ink-absorbing layer containing 848 mg/m² cationic latex polymer (m- and p-chloromethylethenylbenzene, 2-methyl-2-propenoic acid 1,2-ethanediyl ester, quaternized with N,N-dimethylmethanamine) and 129.16 mg/m² polymeric matte (polystyrene beads, 20 μ m) and a top layer (poly(Me methacrylate)) having thickness 0.005-0.1 μ m on the other side.

IT 25608-12-2P, Poly(acrylic acid) potassium salt

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(lightly crosslinked; rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

RN 25608-12-2 HCPLUS

CN 2-Propenoic acid, homopolymer, potassium salt (CA INDEX NAME)

CM 1

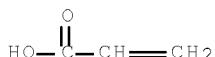
CRN 9003-01-4

CMF (C₃ H₄ O₂)_x

CCI PMS

CM 2

CRN 79-10-7

CMF C₃ H₄ O₂

IT 9003-04-7DP, Poly(acrylic acid) sodium salt, graft polymers with polyethylene oxide 9003-05-8P, Polyacrylamide 9003-39-8P, Poly(vinylpyrrolidone) 9011-14-7P, Poly(methyl methacrylate) 25086-15-1P, Methacrylic acid-methyl methacrylate copolymer 27119-07-9P 57639-78-6P, Methyl methacrylate-poly(ethylene glycol) methacrylate copolymer 59326-44-2P, Acrylic acid-acrylamide copolymer potassium salt 60472-42-6P, Acrylic acid-maleic acid copolymer sodium salt

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

RN 9003-04-7 HCPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

September 12, 2009

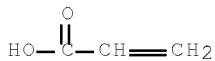
10/591,796

122

CRN 9003-01-4
CMF (C₃ H₄ O₂)_x
CCI PMS

CM 2

CRN 79-10-7
CMF C₃ H₄ O₂



RN 9003-05-8 HCPLUS
CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

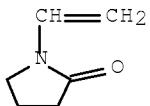
CRN 79-06-1
CMF C₃ H₅ N O



RN 9003-39-8 HCPLUS
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

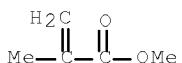
CRN 88-12-0
CMF C₆ H₉ N O



RN 9011-14-7 HCPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 80-62-6
CMF C₅ H₈ O₂



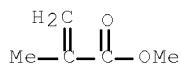
RN 25086-15-1 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with methyl
2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 80-62-6

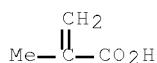
CMF C5 H8 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2



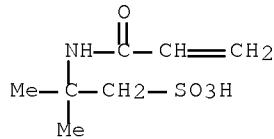
RN 27119-07-9 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-,
homopolymer (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



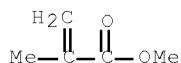
RN 57639-78-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl)
 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 80-62-6

CMF C5 H8 O2



CM 2

CRN 9056-77-3

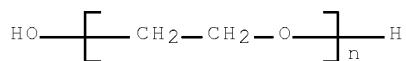
CMF C4 H6 O2 . x (C2 H4 O)n H2 O

CM 3

CRN 25322-68-3

CMF (C2 H4 O)n H2 O

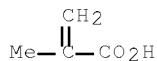
CCI PMS



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 59326-44-2 HCAPLUS

CN 2-Propenoic acid, polymer with 2-propenamide, potassium salt (CA INDEX NAME)

CM 1

CRN 9003-06-9

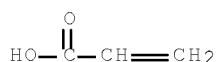
CMF (C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



CM 3

CRN 79-06-1
 CMF C3 H5 N O



RN 60472-42-6 HCPLUS
 CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid, sodium salt
 (CA INDEX NAME)

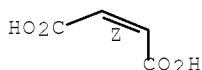
CM 1

CRN 29132-58-9
 CMF (C4 H4 O4 . C3 H4 O2)x
 CCI PMS

CM 2

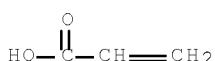
CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 79-10-7
 CMF C3 H4 O2

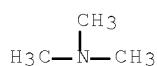


IT 142135-23-7
 RL: PRP (Properties); TEM (Technical or engineered material use);
 USES (Uses)
 (rapid drying image-recording element for ink-jet ink images
 comprising support and ink-receptive layer and top layer containing
 acrylic polymers)
 RN 142135-23-7 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,2-ethanediyl) ester, polymer
 with 1-(chloromethyl)-3-ethenylbenzene and
 1-(chloromethyl)-4-ethenylbenzene, compd. with
 N,N-dimethylmethanamine (CA INDEX NAME)

CM 1

CRN 75-50-3

CMF C3 H9 N

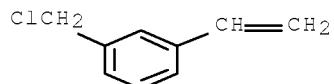


CM 2

CRN 142135-22-6
 CMF (C10 H14 O4 . C9 H9 Cl . C9 H9 Cl)x
 CCI PMS

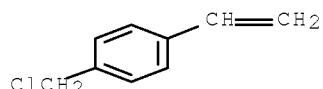
CM 3

CRN 39833-65-3
 CMF C9 H9 Cl



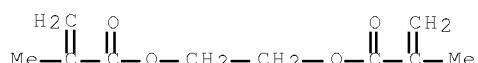
CM 4

CRN 1592-20-7
 CMF C9 H9 Cl



CM 5

CRN 97-90-5
 CMF C10 H14 O4



IC ICM B41M005-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 42, 43

IT Polyoxalkylenes, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(graft polymers with poly(acrylic acid) sodium salt; rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

IT 25608-12-2P, Poly(acrylic acid) potassium salt
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (lightly crosslinked; rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

IT 9002-89-5P, Poly(vinyl alcohol) 9003-04-7P,
 Poly(acrylic acid) sodium salt, graft polymers with polyethylene oxide 9003-05-8P, Polyacrylamide 9003-39-8P, Poly(vinylpyrrolidone) 9011-14-7P,
 Poly(methyl methacrylate) 9012-76-4P, Chitosan 9080-79-9P,
 Poly(styrene) sulfonate sodium salt 25086-15-1P,
 , Methacrylic acid-methyl methacrylate copolymer 25213-24-5P,
 Vinyl acetate-vinyl alcohol copolymer 25322-68-3DP, Polyethylene oxide, graft polymers with poly(acrylic acid) sodium salt 27119-07-9P 57639-78-8P, Methyl methacrylate-poly(ethylene glycol) methacrylate copolymer 59326-44-2P, Acrylic acid-acrylamide copolymer potassium salt 60472-42-6P, Acrylic acid-maleic acid copolymer sodium salt
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

IT 142135-23-7
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (rapid drying image-recording element for ink-jet ink images comprising support and ink-receptive layer and top layer containing acrylic polymers)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2000:351210 HCAPLUS Full-text
 DOCUMENT NUMBER: 132:348149
 TITLE: Water-soluble or -dispersible graft copolymers based on a poly(vinylactam), their preparation and use
 INVENTOR(S): Kim, Son Nguyen; Sanner, Axel; Hossel, Peter; Schehlmann, Volker
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
 SOURCE: Eur. Pat. Appl., 15 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

September 12, 2009

10/591,796

128

EP 1002811

A2

20000524

EP 1999-122635

199911
13

<--

EP 1002811

A3

20000719

EP 1002811

B1

20020213

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, SI, LT, LV, FI, RO

DE 19853046

A1

20000525

DE 1998-19853046

199811
18

<--

AT 213256

T

20020215

AT 1999-122635

199911
13

<--

ES 2172972

T3

20021001

ES 1999-122635

199911
13

<--

US 6329472

B1

20011211

US 1999-441092

199911
16

<--

JP 2000178323

A

20000627

JP 1999-327139

199911
17

<--

CN 1257880

A

20000628

CN 1999-127747

199911
18

<--

CN 1138799

C

20040218

DE 1998-19853046

A
199811
18

<--

AB The copolymers (K value 30-70), especially useful in hair-setting preps., are prepared by graft polymerizing $\text{CH}_2:\text{CR}_1\text{COXCM}_3$ (X = O, NR₂; R₁, R₂ = H, C₁-alkyl) 50-85, CO₂H-containing vinyl monomer(s) 15-30, and $\text{CH}_2:\text{CR}_1\text{COXR}$ (R = C₆-30 alkyl) 0-25 weight% onto a polymer (K value 30-50) containing $\geq 30\%$ units derived from ≥ 1 N-vinylactam with a (5-7)-membered ring to give a polymer with grafted portion/backbone weight ratio 100:(5-200), which is at least partially neutralized. Thus, 150 g N-vinylcaprolactam was polymerized for 18 h at 80° in EtOH with tert-Bu perpivalate as initiator, and the resulting polymer solution was mixed with 60.0 g methacrylic acid and 240 g tert-Bu acrylate in addnl. EtOH and polymerized 11 h at 80°, then 95% neutralized with 2-amino-2-methyl-1-propanol to give a polymer solution which could be directly included in an aerosol hair spray formulation.

IT 269747-34-4P, tert-Butyl acrylate-methacrylic acid-N-vinylcaprolactam graft copolymer 2-amino-2-methyl-1-propanol salt 269747-36-6P 269747-38-8P
269747-40-2P 269747-42-4P 269747-44-6P
269747-46-8P 269747-48-0P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

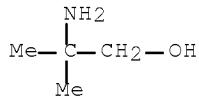
(preparation of water-soluble or -dispersible graft copolymers based on a poly(vinylactam) for use in hair preps.)

RN 269747-34-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenylhexahydro-2H-azepin-2-one, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

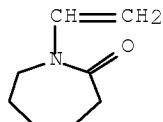


CM 2

CRN 269747-33-3
CMF (C₈ H₁₃ N O . C₇ H₁₂ O₂ . C₄ H₆ O₂)_x
CCI PMS

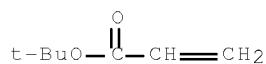
CM 3

CRN 2235-00-9
CMF C₈ H₁₃ N O



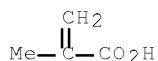
CM 4

CRN 1663-39-4
CMF C₇ H₁₂ O₂



CM 5

CRN 79-41-4
CMF C₄ H₆ O₂



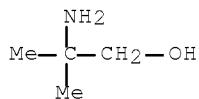
RN 269747-36-6 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 269747-35-5

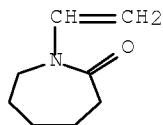
CMF (C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x

CCI PMS

CM 3

CRN 2235-00-9

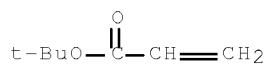
CMF C8 H13 N O



CM 4

CRN 1663-39-4

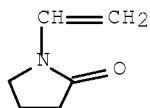
CMF C7 H12 O2



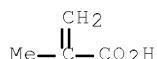
CM 5

CRN 88-12-0

CMF C6 H9 N O

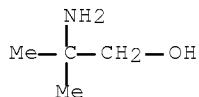


CM 6

CRN 79-41-4
CMF C4 H6 O2

RN 269747-38-8 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide,
 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one
 and 1-ethenyl-2-pyrrolidinone, graft, compd. with
 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

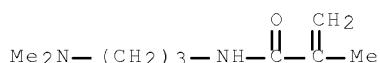
CM 1

CRN 124-68-5
CMF C4 H11 N O

CM 2

CRN 269747-37-7
 CMF (C9 H18 N2 O . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
 CCI PMS

CM 3

CRN 5205-93-6
CMF C9 H18 N2 O

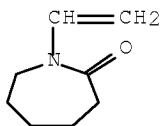
September 12, 2009

10/591,796

132

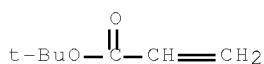
CM 4

CRN 2235-00-9
CMF C8 H13 N O



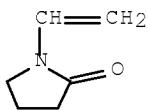
CM 5

CRN 1663-39-4
CMF C7 H12 O2



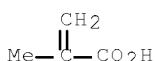
CM 6

CRN 88-12-0
CMF C6 H9 N O



CM 7

CRN 79-41-4
CMF C4 H6 O2



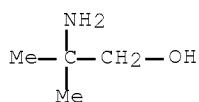
RN 269747-40-2 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate and 1-ethenyl-2-pyrrolidinone, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O

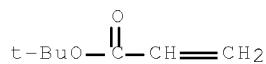


CM 2

CRN 269747-39-9
 CMF (C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
 CCI PMS

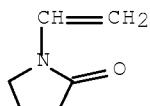
CM 3

CRN 1663-39-4
 CMF C7 H12 O2



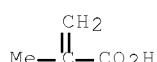
CM 4

CRN 88-12-0
 CMF C6 H9 N O



CM 5

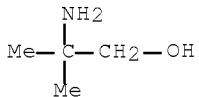
CRN 79-41-4
 CMF C4 H6 O2



RN 269747-42-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O

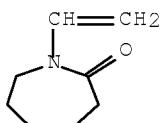
CM 2

CRN 269747-41-3
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C4 H6 O2)x
CCI PMS

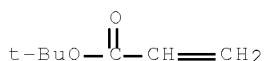
CM 3

CRN 32360-05-7
CMF C22 H42 O2

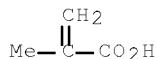
CM 4

CRN 2235-00-9
CMF C8 H13 N O

CM 5

CRN 1663-39-4
CMF C7 H12 O2

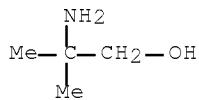
CM 6

CRN 79-41-4
CMF C4 H6 O2

RN 269747-44-6 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

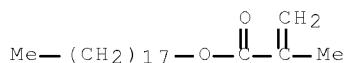
CM 1

CRN 124-68-5
CMF C4 H11 N O

CM 2

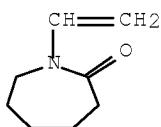
CRN 269747-43-5
CMF (C22 H42 O2 . C8 H13 N O . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
CCI PMS

CM 3

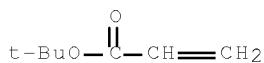
CRN 32360-05-7
CMF C22 H42 O2

CM 4

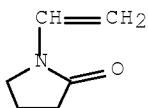
CRN 2235-00-9
CMF C8 H13 N O



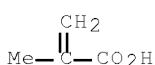
CM 5

CRN 1663-39-4
CMF C7 H12 O2

CM 6

CRN 88-12-0
CMF C6 H9 N O

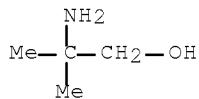
CM 7

CRN 79-41-4
CMF C4 H6 O2

RN 269747-46-8 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with
 N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide,
 1,1-dimethylethyl 2-propenoate, 1-ethenylhexahydro-2H-azepin-2-one,
 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate,
 graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX
 NAME)

CM 1

CRN 124-68-5
CMF C4 H11 N O



CM 2

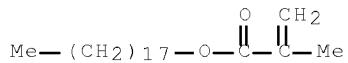
CRN 269747-45-7

CMF (C₂₂ H₄₂ O₂ . C₉ H₁₈ N₂ O . C₈ H₁₃ N O . C₇ H₁₂ O₂ . C₆ H₉ N O . C₄ H₆ O₂)_x

CCI PMS

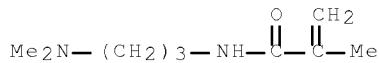
CM 3

CRN 32360-05-7

CMF C₂₂ H₄₂ O₂

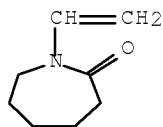
CM 4

CRN 5205-93-6

CMF C₉ H₁₈ N₂ O

CM 5

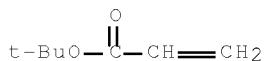
CRN 2235-00-9

CMF C₈ H₁₃ N O

CM 6

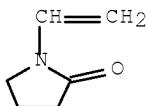
CRN 1663-39-4

CMF C₇ H₁₂ O₂



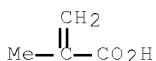
CM 7

CRN 88-12-0
 CMF C6 H9 N O



CM 8

CRN 79-41-4
 CMF C4 H6 O2

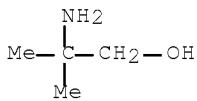


RN 269747-48-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 1,1-dimethylethyl 2-propenoate, 1-ethenyl-2-pyrrolidinone and octadecyl 2-methyl-2-propenoate, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5
 CMF C4 H11 N O

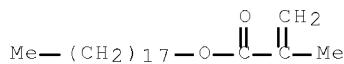


CM 2

CRN 269747-47-9
 CMF (C22 H42 O2 . C7 H12 O2 . C6 H9 N O . C4 H6 O2)x
 CCI PMS

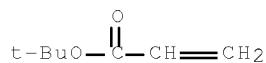
CM 3

CRN 32360-05-7
 CMF C22 H42 O2



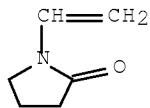
CM 4

CRN 1663-39-4
 CMF C7 H12 O2



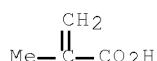
CM 5

CRN 88-12-0
 CMF C6 H9 N O



CM 6

CRN 79-41-4
 CMF C4 H6 O2



IC ICM C08F271-02
 ICS A61K007-06

CC 35-4 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 62

IT Hair preparations
 (sprays; water-soluble or -dispersible graft copolymers
 based on a poly(vinylactam) for use in)

IT Cosmetics
 Drug delivery systems
 (water-soluble or -dispersible graft copolymers based on a
 poly(vinylactam) for use in)

IT 269747-34-4P, tert-Butyl acrylate-methacrylic

acid-N-vinylcaprolactam graft copolymer 2-amino-2-methyl-1-propanol salt 269747-36-6P 269747-38-8P

269747-40-2P 269747-42-4P 269747-44-6P

269747-46-8P 269747-48-0P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of water-soluble or -dispersible graft copolymers based on a poly(vinylactam) for use in hair preps.)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 13 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1998:31151 HCAPLUS Full-text

DOCUMENT NUMBER: 128:102540

ORIGINAL REFERENCE NO.: 128:20103a, 20106a

TITLE: Carboxy group-containing polymer (salt)

colloidal gel containing polymer (100)
) and its preparation as a dispersion
or redispersible powder for use as thickener in
aqueous systems

INVENTOR(S): Kuropka, Rolf

PATENT ASSIGNEE(S): Hoechst A.-G., Germany

SOURCE: RECEIVED IN U.S. Germany
U.S., 10 pp., Cont.-in-part of U.S. Ser. No.
250,441, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent
LANGUAGE: English

LANGUAGE : FAMIL Y ACC NUM COUNT

FAMILY ACC. NUM. COM
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5705553	A	19980106	US 1995-555878	19951113
DE 4318033	A1	19941201	DE 1993-4318033	19930529
DE 4318033	C2	19960829	DE 1993-4318033	A 19930529
ITY APPLN. INFO.:			US 1994-250441	B2 19940527

AB Copolymers based on ethylenically unsatd. carboxylic acid (anhydrides) and copolymerizable methacrylic acid esters or acrylic acid esters of aliphatic C1-22 alcs. and other monomers, which contain $\geq 24\%$ of monomers carrying carboxyl groups, are prepared by emulsion copolyrn. initiated by free radicals in the presence of poly(vinyl alc.) (PVA) or poly(vinylpyrrolidone) (PVP) dissolved in the aqueous phase, and optionally removal of H₂O by spray drying to obtain redispersible copolymer powders. Thus, a stable dispersion was

produced from the ammonium copolymer salt of methacrylic acid, Me methacrylate, grafted polyvinyl alc. protective colloid.

IT 201351-78-2P, Methacrylic acid-methyl methacrylate-vinyl alcohol graft copolymer ammonium salt
 201351-79-3P, Methacrylic acid-methyl methacrylate-vinylpyrrolidone graft copolymer ammonium salt
 RL: IM (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (carboxy group-containing polymer (salt) dispersion
 or redispersible powder for use as thickener in aqueous systems)

RN 201351-78-2 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenol and methyl 2-methyl-2-propenoate, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 171970-79-9

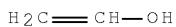
CMF (C5 H8 O2 . C4 H6 O2 . C2 H4 O)x

CCI PMS

CM 2

CRN 557-75-5

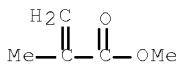
CMF C2 H4 O



CM 3

CRN 80-62-6

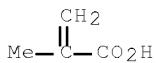
CMF C5 H8 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 201351-79-3 HCPLUS

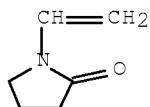
CN 2-Propenoic acid, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone and methyl 2-methyl-2-propenoate, graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 154830-99-6
 CMF (C₆ H₉ N O . C₅ H₈ O₂ . C₄ H₆ O₂)_x
 CCI PMS

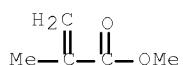
CM 2

CRN 88-12-0
 CMF C₆ H₉ N O



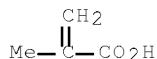
CM 3

CRN 80-62-6
 CMF C₅ H₈ O₂



CM 4

CRN 79-41-4
 CMF C₄ H₆ O₂



IC ICM C08F002-16

INCL 524459000

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 42

ST methacrylic acid graft copolymer salt thickener;
 methacrylate graft copolymer salt thickener; vinyl alc
 graft copolymer salt thickener; copolymerizable surfactant
 graft copolymer salt thickener

IT Pickling
 (agents; carboxy group-containing polymer (salt)
 dispersion or redispersible powder for use as thickener
 in aqueous formulations of)

IT Cement (construction material)
 Concrete
 Cosmetics
 Detergents

Drilling fluids
Herbicides
Mortar
Pesticides
(carboxy group-containing polymer (salt) dispersion
or redispersible powder for use as thickener in aqueous formulations
of)

IT Fertilizers
Lime (chemical)
RL: MSC (Miscellaneous)
(carboxy group-containing polymer (salt) dispersion
or redispersible powder for use as thickener in aqueous formulations
of)

IT Thickening agents
(carboxy group-containing polymer (salt) dispersion
or redispersible powder for use as thickener in aqueous systems)

IT Alcohols, preparation
RL: IMF (Industrial manufacture); TEM (Technical or engineered
material use); PREP (Preparation); USES (Uses)
(ethoxylated, crotonate, polymer with methacrylate, methacrylic
acid, and protective colloid, salt; carboxy
group-containing polymer (salt) dispersion or
redispersible powder for use as thickener in aqueous systems)

IT Paints
(latex; carboxy group-containing polymer (salt)
dispersion or redispersible powder for use as thickener
in aqueous formulations of)

IT Textile printing
Textile printing
(pastes; carboxy group-containing polymer (salt)
dispersion or redispersible powder for use as thickener
in aqueous formulations of)

IT Pastes
Pastes
(textile printing; carboxy group-containing polymer (salt)
dispersion or redispersible powder for use as thickener
in aqueous formulations of)

IT 79-41-4DP, polymer with methacrylate, protective colloid
and cosurfactant, salt 80-62-6DP, polymer with
methacrylic acid, protective colloid and cosurfactant,
salt 9002-89-5DP, Poly(vinyl alcohol), polymer with
methacrylic acid, methacrylate, and cosurfactant, salt
201351-78-2P, Methacrylic acid-methyl methacrylate-vinyl
alcohol graft copolymer ammonium salt
201351-79-3P, Methacrylic acid-methyl
methacrylate-vinylpyrrolidone graft copolymer ammonium salt
RL: IMF (Industrial manufacture); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(carboxy group-containing polymer (salt) dispersion
or redispersible powder for use as thickener in aqueous systems)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS
RECORD (6 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

TITLE: Adhesive preparations containing bakuhanseki, a kind of quartz porphyry
 INVENTOR(S): Yoneto, Kunio; Udagawa, Hiroko; Nishida, Naoko
 PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169633	A	19970630	JP 1995-334902	199512 22
JP 3497309	B2	20040216	JP 1995-334902	199512 22

<--

PRIORITY APPLN. INFO.:

AB The preps. comprise a support having thereon an adhesive layer containing (A) acrylic adhesives, (B) bakuhanseki (C) polyhydric alcs., and (D) drugs. Alternately, the adhesive layer contains (A), (B), (C) water-absorbing polymers, and (D); acrylic emulsion adhesives, (B), and (D); or water-soluble polymers, (B), and (D). The adhesive preps. enable good transdermal absorption of drugs and show less skin-irritating action. A polyester release paper was coated with a composition containing glycerin, bakuhanseki, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer, indomethacin (I), and AcOEt and the adhesive layer was laminated with a polyethylene film to give an adhesive preparation. Permeation of I from the preparation through a sheet of nude mouse skin at 37° for 24 h was 40.3 µg/cm², vs. 25.2 µg/cm² for a control preparation containing no bakuhanseki.

IT 28554-24-7, 2-Ethylhexyl acrylate-methyl acrylate copolymer

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Nikasol TS 620; topical adhesive preps. containing bakuhanseki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

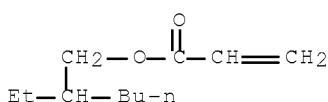
RN 28554-24-7 HCPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with methyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2

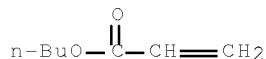


CM 2

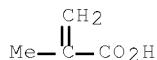
CRN 96-33-3
CMF C4 H6 O2

IT 25035-82-9, Butyl acrylate-methacrylic acid copolymer
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Primal N 580NF; topical adhesive preps. containing bakuhansiki
 (quartz porphyry) and polyhydric alcs. or water-absorbing or
 water-soluble polymers)
 RN 25035-82-9 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate (CA
 INDEX NAME)

CM 1

CRN 141-32-2
CMF C7 H12 O2

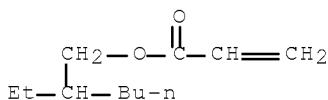
CM 2

CRN 79-41-4
CMF C4 H6 O2

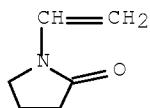
IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl
 acrylate-2-hydroxyethyl methacrylate copolymer
 RL: PNU (Preparation, unclassified); THU (Therapeutic
 use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (topical adhesive preps. containing bakuhansiki (quartz porphyry)
 and polyhydric alcs. or water-absorbing or water-soluble polymers)
 RN 27234-90-8 HCAPLUS
 CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with
 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

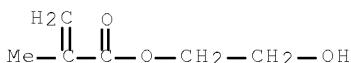
CRN 103-11-7
CMF C11 H20 O2



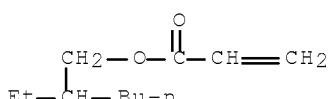
CM 2

CRN 88-12-0
CMF C6 H9 N ORN 34150-07-7 HCPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 868-77-9
CMF C6 H10 O3

CM 2

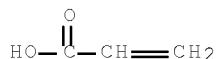
CRN 103-11-7
CMF C11 H20 O2IT 9003-04-7, Hiviswako 105 60908-64-7,
Polyacrylic acid aluminum sodium salt
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical adhesive preps. containing bakuhanshi (quartz porphyry)
and polyhydric alcs. or water-absorbing or water-soluble polymers)
RN 9003-04-7 HCPLUS
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C₃ H₄ O₂)_x
 CCI PMS

CM 2

CRN 79-10-7
 CMF C₃ H₄ O₂



RN 60908-64-7 HCPLUS

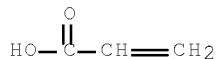
CN 2-Propenoic acid, homopolymer, aluminum sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C₃ H₄ O₂)_x
 CCI PMS

CM 2

CRN 79-10-7
 CMF C₃ H₄ O₂



IC ICM A61K009-70

ICS A61K009-70; C09J007-02

CC 63-6 (Pharmaceuticals)

IT 28554-24-7, 2-Ethylhexyl acrylate-methyl acrylate copolymer

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Nikasol TS 620; topical adhesive preps. containing bakuhanshiki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

IT 25035-82-9, Butyl acrylate-methacrylic acid copolymer

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (Primal N 580NF; topical adhesive preps. containing bakuhanshiki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl

acrylate-2-hydroxyethyl methacrylate copolymer

RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(topical adhesive preps. containing bakuhanshiki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

IT 56-81-5, Glycerin, biological studies 57-55-6, Propylene glycol, biological studies 9003-04-7, Hiviswako 105 9004-32-4,

Sodium carboxymethyl cellulose 60908-64-7, Polyacrylic acid aluminum sodium salt 76633-00-6, Kollidon CL 192587-39-6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (topical adhesive preps. containing bakuhanseki (quartz porphyry) and polyhydric alcs. or water-absorbing or water-soluble polymers)

L40 ANSWER 15 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1997:464305 HCPLUS Full-text

DOCUMENT NUMBER: 127:99857

ORIGINAL REFERENCE NO.: 127:19149a,19152a

TITLE: Adhesive preparations containing fermented rice extract

INVENTOR(S): Udagawa, Hiroko; Yoneto, Kunio; Nishida, Naoko

PATENT ASSIGNEE(S): Sekisui Chemical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
JP 09169632	A	19970630	JP 1995-334896	199512 22
JP 3497308	B2	20040216	JP 1995-334896	199512 22
<--				
<--				
<--				

AB The preps. comprise a support having thereon an adhesive layer containing (A) acrylic adhesives, (B) fermented rice extract, (C) polyhydric alcs., and (D) drugs. Alternately, the adhesive layer contains (A), water-absorbing polymers, (B), and (D); acrylic emulsion adhesives, (B), and (D); or water-soluble polymers, (B), and (D). The adhesive preps. enable good transdermal absorption of drugs and show less skin-irritating action. A polyester film was coated with a composition containing glycerin, fermented rice extract, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer, and indomethacin (I) to give an adhesive preparation Permeation of I from the preparation through a sheet of nude mouse skin at 37° for 24 h was 51.4 µg/cm², vs. 25.2 µg/cm² for a control preparation containing no fermented rice extract

IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(topical adhesive preps. containing fermented rice extract and polyhydric alcs. or water-absorbing or water-soluble polymers)

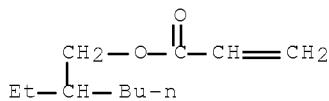
RN 27234-90-8 HCPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

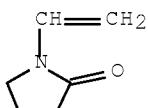
CRN 103-11-7

CMF C11 H20 O2



CM 2

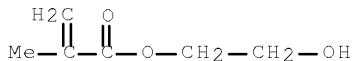
CRN 88-12-0
 CMF C6 H9 N O



RN 34150-07-7 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 2-ethylhexyl 2-propenoate (CA INDEX NAME)

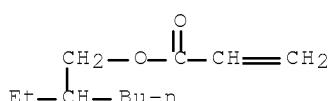
CM 1

CRN 868-77-9
 CMF C6 H10 O3



CM 2

CRN 103-11-7
 CMF C11 H20 O2



IT 9003-04-7, Hiviswako 105 25035-82-9, Butyl
 acrylate-methacrylic acid copolymer 28554-24-7,
 2-Ethylhexyl acrylate-methyl acrylate copolymer 60908-64-7
 , Polyacrylic acid aluminum sodium salt
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (topical adhesive preps. containing fermented rice extract and
 polyhydric alcs. or water-absorbing or water-soluble polymers)

September 12, 2009

10/591,796

150

RN 9003-04-7 HCPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

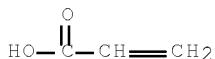
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



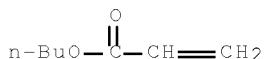
RN 25035-82-9 HCPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 141-32-2

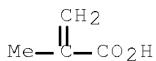
CMF C7 H12 O2



CM 2

CRN 79-41-4

CMF C4 H6 O2



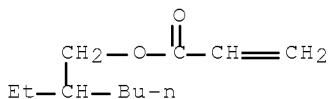
RN 28554-24-7 HCPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with methyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 103-11-7

CMF C11 H20 O2



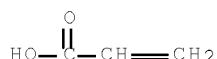
CM 2

CRN 96-33-3
CMF C4 H6 O2RN 60908-64-7 HCPLUS
CN 2-Propenoic acid, homopolymer, aluminum sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
CMF (C3 H4 O2)x
CCI PMS

CM 2

CRN 79-10-7
CMF C3 H4 O2IC ICM A61K009-70
ICS C09J007-02

CC 63-6 (Pharmaceuticals)

IT 27234-90-8P 34150-07-7P, 2-Ethylhexyl acrylate-2-hydroxyethyl methacrylate copolymer
RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(topical adhesive preps. containing fermented rice extract and polyhydric alcs. or water-absorbing or water-soluble polymers)

IT 56-81-5, 1,2,3-Propanetriol, biological studies 9003-04-7
, Hiviswako 105 9004-32-4, Sodium carboxymethyl cellulose 25035-82-9, Butyl acrylate-methacrylic acid copolymer 25322-68-3 28554-24-7, 2-Ethylhexyl acrylate-methyl acrylate copolymer 60908-64-7, Polyacrylic acid aluminum sodium salt 76633-00-6, Kollidon CLRL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(topical adhesive preps. containing fermented rice extract and polyhydric alcs. or water-absorbing or water-soluble polymers)

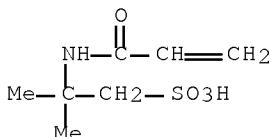
L40 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:997882 HCAPLUS Full-text
 DOCUMENT NUMBER: 124:121785
 ORIGINAL REFERENCE NO.: 124:22581a,22584a
 TITLE: Temperature- and salt-resistant
 water-soluble photopolymers
 INVENTOR(S): Li, Miaozen; Chang, Zhiying; Nie, Jun
 PATENT ASSIGNEE(S): Chinese Academy of Sciences, Sensitization
 Chemistry Institute, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9
 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
CN 1105675	A	19950726	CN 1994-100644	199401 20
<--				
CN 1056856	C	20000927	CN 1994-100644	199401 20
<--				
PRIORITY APPLN. INFO.:				

AB Water-soluble photopolymers comprise monomers of (1) acrylamide and its derivs., (2) (meth)acrylic acid esters, (3) N-vinylpyrrolidones, and (4) vinyl aliphatic sulfonates; the polymers are prepared under UV light or visible light with initiator in an aqueous solution for (1,4)-, (1,3,4)- and (1,2,3,4)-photopolymn. The total concentration of the monomers is 10-45 weight% and the polymer contains >30 weight% (4) monomers. The photopolymers are useful as viscosifiers, emulsion dispersants and oil repellents for petroleum tertiary recovery.
 IT 40623-73-2P, Acrylamide-2-acrylamido-2-methylpropanesulfonic acid copolymer 83383-93-1P
 173028-02-9P
 RL: NUU (Other use, unclassified); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
 (by photopolymn.; temperature- and salt-resistant water-soluble photopolymers for petroleum tertiary recovery)
 RN 40623-73-2 HCAPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



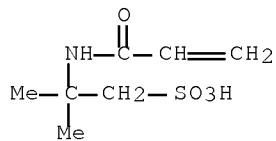
CM 2

CRN 79-06-1
CMF C3 H5 N O

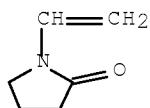
RN 83383-93-1 HCPLUS

CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-,
polymer with 1-ethenyl-2-pyrrolidinone and 2-propenamide (CA INDEX
NAME)

CM 1

CRN 15214-89-8
CMF C7 H13 N O4 S

CM 2

CRN 88-12-0
CMF C6 H9 N O

CM 3

CRN 79-06-1
CMF C3 H5 N O

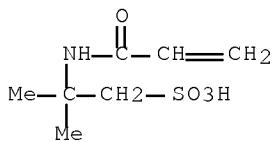
RN 173028-02-9 HCPLUS

CN 2-Propenoic acid, 2-hydroxypropyl ester, polymer with
1-ethenyl-2-pyrrolidinone, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-
propanesulfonic acid and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

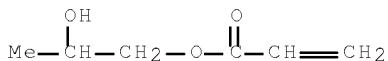
CMF C7 H13 N O4 S



CM 2

CRN 999-61-1

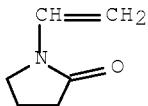
CMF C6 H10 O3



CM 3

CRN 88-12-0

CMF C6 H9 N O



CM 4

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08F220-56

ICS C08F220-06; C08F212-04; C08F002-48

CC 51-2 (Fossil Fuels, Derivatives, and Related Products)
 Section cross-reference(s): 35

ST temp salt resistance water soluble photopolymer;
 acrylamide acrylate vinylpyrrolidone sulfonate photopolymer;
 petroleum recovery tertiary photopolymer prepn

IT Polymerization
 (photochem., in preparation of temperature- and salt-resistant
 water-soluble photopolymers for petroleum tertiary recovery)

IT Petroleum recovery
 (tertiary, preparation of temperature- and salt-resistant
 water-soluble photopolymers for)

IT 40623-73-2P, Acrylamide-2-acrylamido-2-
 methylpropanesulfonic acid copolymer 83383-93-1P
 173028-02-9P
 RL: NUU (Other use, unclassified); PNU (Preparation,
 unclassified); PREP (Preparation); USES (Uses)
 (by photopolymer.; temperature- and salt-resistant water-soluble
 photopolymers for petroleum tertiary recovery)

IT 6252-00-2 6652-28-4, Benzoin isopropyl ether 24650-42-8
 RL: NUU (Other use, unclassified); USES (Uses)
 (initiator; in preparation of temperature- and salt
 -resistant water-soluble photopolymers for petroleum tertiary
 recovery)

L40 ANSWER 17 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1995:746488 HCPLUS Full-text
 DOCUMENT NUMBER: 123:288963
 ORIGINAL REFERENCE NO.: 123:51737a,51740a
 TITLE: Peelable pressure-sensitive adhesive
 compositions and pressure-sensitive tapes or
 sheets therewith
 INVENTOR(S): Horata, Mitsuru; Tozaki, Yutaka; Kawanishi,
 Michio
 PATENT ASSIGNEE(S): Nitto Denko Corp, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

JP 07138545	A	19950530	JP 1993-284813	199311
				15

<--

JP 3339938	B2	20021028	JP 1993-284813	199311
PRIORITY APPLN. INFO.:				15

<--

AB Adhesives contain water-dispersed acrylic copolymers (average particle size $\leq 100 \mu\text{m}$) of (meth)acrylic acid C4-14 alkyl esters 50-97, monomers having H-free amide linkages 2-20, and monomers having CO₂H or anhydrides and/or nitrile groups in the side chains 1-30. Thus, Bu acrylate 95, N,N-dimethylacrylamide 3, acrylonitrile 2, VA 58 (polymerization initiator) 0.3, and Pelex SS-L (alkyldiphenyl ether disulfonate Na salt) 2 parts were treated at 65° for 6 h in H₂O, adjusted to pH 7, applied to a polyester film, and

dried to give a pressure-sensitive tape, which showed adhesion strength 530 g/18 mm to an acrylic plate (JIS Z-0237).

IT 92674-82-3P 169504-82-9P
169504-83-0P 169504-84-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(peelable pressure-sensitive adhesives containing water-dispersed acrylic resins)

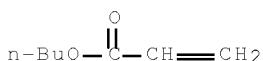
RN 92674-82-3 HCPLUS

CN 2-Propenoic acid, butyl ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 141-32-2

CMF C7 H12 O2



CM 2

CRN 107-13-1

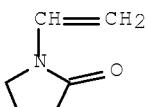
CMF C3 H3 N



CM 3

CRN 88-12-0

CMF C6 H9 N O



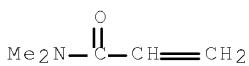
RN 169504-82-9 HCPLUS

CN 2-Propenoic acid, butyl ester, polymer with N,N-dimethyl-2-propenamide and 2-propenenitrile (9CI) (CA INDEX NAME)

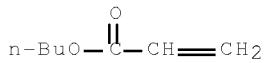
CM 1

CRN 2680-03-7

CMF C5 H9 N O



CM 2

CRN 141-32-2
CMF C7 H12 O2

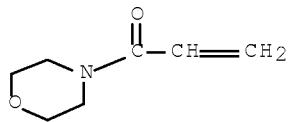
CM 3

CRN 107-13-1
CMF C3 H3 N

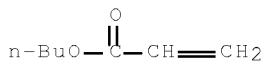
RN 169504-83-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, methyl 2-methyl-2-propenoate and 4-(1-oxo-2-propenyl)morpholine (9CI) (CA INDEX NAME)

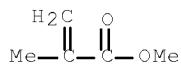
CM 1

CRN 5117-12-4
CMF C7 H11 N O2

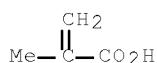
CM 2

CRN 141-32-2
CMF C7 H12 O2

CM 3

CRN 80-62-6
CMF C5 H8 O2

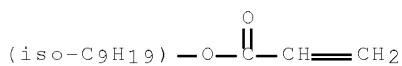
CM 4

CRN 79-41-4
CMF C4 H6 O2

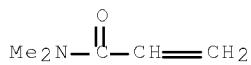
RN 169504-84-1 HCAPLUS

CN 2-Propenoic acid, polymer with N,N-dimethyl-2-propenamide and isononyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

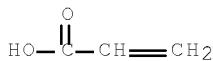
CRN 51952-49-9
CMF C12 H22 O2
CCI IDS

CM 2

CRN 2680-03-7
CMF C5 H9 N O

CM 3

CRN 79-10-7
CMF C3 H4 O2



IC ICM C09J133-08
ICS C09J007-02

CC 38-3 (Plastics Fabrication and Uses)
IT Adhesives

(water-thinned, peelable pressure-sensitive adhesives containing water-dispersed acrylic resins)

IT 92674-82-3P 169504-82-9P
169504-83-0P 169504-84-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(peelable pressure-sensitive adhesives containing water-dispersed acrylic resins)

L40 ANSWER 18 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:620124 HCPLUS Full-text

DOCUMENT NUMBER: 123:17986

ORIGINAL REFERENCE NO.: 123:3351a,3354a

TITLE: adhesive tapes for wound healing

INVENTOR(S): Setoguchi, Juji

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

JP 07097316	A	19950411	JP 1993-242743	199309 29

<--

JP 3253431	B2	20020204	JP 1993-242743	199309 29
------------	----	----------	----------------	--------------

<--

AB Adhesive tapes for wound healing comprise a urethane film support having thereon an adhesive layer of (meth)acrylic acid alkyl ester polymers and an adhesive layer composed of 100 parts water-soluble or water-swellable polymers selected from poly(acrylic acid) (metal salts), crosslinked poly(acrylic acid) (salts), Na alginate, hydroxypropyl cellulose, gelatin, casein, poly(vinyl alc.), and CM-cellulose (salts) and 200-1000 parts H2O. The tapes are permeable to water vapor but nonpermeable to bacteria and water. The tapes are readily removable after application. A silicone-treated PET film was coated with a composition containing 2-ethylhexyl acrylate-vinylpyrrolidone copolymer and the adhesive layer was transferred onto a SILKON film (polyurethane). The adhesive layer was further coated with a composition containing Hiviswako, Cellogen (Na carboxyvinyl cellulose), and H2O to give a medical adhesive tape.

IT 27234-90-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (adhesive taps for wound healing)

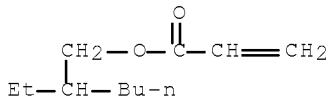
RN 27234-90-8 HCPLUS

CN 2-Propenoic acid, 2-ethylhexyl ester, polymer with
 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 103-11-7

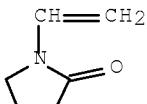
CMF C11 H20 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



IT 9003-04-7, Aronvis

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (adhesive taps for wound healing)

RN 9003-04-7 HCPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

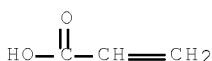
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



IT 9003-01-4, Poly(acrylic acid)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(crosslinked; adhesive taps for wound healing)

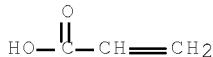
RN 9003-01-4 HCPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



IC ICM A61K009-70

ICS A61K009-70

CC 63-7 (Pharmaceuticals)

IT 27234-90-8P

RL: IMF (Industrial manufacture); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)

(adhesive taps for wound healing)

IT 9002-89-5, Poly(vinyl alcohol) 9003-04-7, Aronvis

9004-32-4, Cellogen 9004-64-2, Hydroxypropyl cellulose 9005-38-3

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(adhesive taps for wound healing)

IT 9003-01-4, Poly(acrylic acid)

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(crosslinked; adhesive taps for wound healing)OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS
RECORD (1 CITINGS)

L40 ANSWER 19 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:347382 HCPLUS Full-text

DOCUMENT NUMBER: 122:169692

ORIGINAL REFERENCE NO.: 122:31023a,31026a

TITLE: Eyebrow-protecting materials containing
water-soluble polymers

INVENTOR(S): Oonishi, Masumi; Setoguchi, Juji

PATENT ASSIGNEE(S): Sekisui Chemical Co. Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
JP 06321735	A	19941122	JP 1993-110513	199305
				12

PRIORITY APPLN. INFO.: JP 1993-110513

199305

12

<--

AB The title materials, those are applied to eyebrows for protection of them when
shaping them into forms as one likes by shaving, contain water-soluble

polymers chosen from poly(vinyl alc.), Na alginate (I), gelatin, Me cellulose, hydroxyethyl cellulose, CM-cellulose (salts), poly(acrylic acid) (II) (salts), methoxyethylene-maleic anhydride copolymer, and poly(vinylpyrrolidone) 100, H2O 300-1000, and EtOH 100-600 weight parts. An eyebrow-protecting material containing Kimitsu Algin (I) 40, Junlon (II) 60, H2O 400, and EtOH 200 weight parts was formulated.

IT 9003-01-4, Poly(acrylic acid) 9003-04-7,
 Aronvis 9003-39-8, Kollidon
 RL: BUU (Biological use, unclassified); BIOL (Biological study);
 USES (Uses)
 (eyebrow-protecting cosmetics containing water-soluble polymers, water,
 and ethanol)

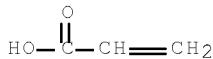
RN 9003-01-4 HCPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7

CMF C3 H4 O2



RN 9003-04-7 HCPLUS

CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4

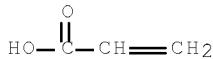
CMF (C3 H4 O2)x

CCI PMS

CM 2

CRN 79-10-7

CMF C3 H4 O2



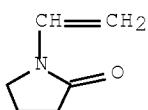
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 103719-07-9P

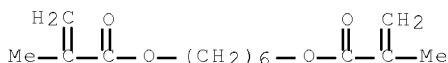
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation; eyebrow-protecting cosmetics containing water-soluble polymers,
water, and ethanol supported on foam materials adhered with acrylic polymer-based adhesive layers)

RN 103719-07-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,1'-(1,6-hexanediyl) ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-ethylhexyl 2-propenoate (CA INDEX NAME)

CM 1

CRN 6606-59-3

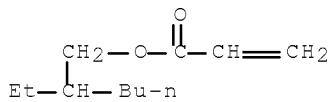
CMF C14 H22 O4



CM 2

CRN 103-11-7

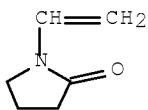
CMF C11 H20 O2



CM 3

CRN 88-12-0

CMF C6 H9 N O



IC ICM A61K007-02
ICS A61K007-00; A61K007-032
CC 62-4 (Essential Oils and Cosmetics)
IT 64-17-5, Ethanol, biological studies 7732-18-5, Water, biological studies 9002-89-5, Gohsenol 9003-01-4, Poly(acrylic acid) 9003-04-7, Aronvis 9003-39-8, Kollidon 9004-32-4, Carboxymethyl cellulose 9004-62-0, Hydroxyethyl cellulose ether 9004-67-5, Methyl cellulose ether 9011-16-9, Maleic anhydride-methoxyethylene copolymer 67016-77-7, Junlon
RL: BUU (Biological use, unclassified); BIOL (Biological study);
USES (Uses)
(eyebrow-protecting cosmetics containing water-soluble polymers, water, and ethanol)
IT 103719-07-9P
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation; eyebrow-protecting cosmetics containing water-soluble polymers, water, and ethanol supported on foam materials adhered with acrylic polymer-based adhesive layers)

L40 ANSWER 20 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1994:458481 HCPLUS Full-text

DOCUMENT NUMBER: 121:58481

ORIGINAL REFERENCE NO.: 121:10553a,10556a

TITLE: EPR Study of Chain Rotational Dynamics in Dilute Aqueous Solutions of Spin-Labeled Poly(acrylic acid) at Different Degrees of Neutralization

AUTHOR(S): Pilar, Jan; Labsky, Jiri

CORPORATE SOURCE: Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, 162 06, Czech Rep.

SOURCE: Macromolecules (1994), 27(14), 3977-81

CODEN: MAMOBX; ISSN: 0024-9297

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Spin-labeled poly(acrylic acid) (SL-PAA) was synthesized and ESR spectra of its dilute aqueous solns. were measured at different degrees of neutralization α in the temperature range 273-353 K. The temperature dependence of parameters characterizing the segmental rotational mobility of SL-PAA and the internal rotation of the spin label relative to the polymer chain were determined by simulating the line shapes of the exptl. EPR spectra. The segmental rotational dynamics of SL-PAA was found to be nearly independent of its degree of neutralization. The absence of the Me group is probably responsible for higher segmental rotational mobility of SL-PAA at all degrees of neutralization and in the entire temperature range studied, when comparing with spin-labeled poly(methacrylic acid) (SL-PMA) under the same conditions. SL-PAA forms strong complexes with both poly(ethylene oxide) (PEO) and poly(N-vinylpyrrolidone) (PVP) in aqueous solns. at α = 0.0 and 0.1. The complexes immediately precipitate from the solution under the authors' exptl. conditions. Complexation of SL-PAA neutralized to higher degrees (α = 0.2-1.0) with PEO or PVP in aqueous solns. was not observed

IT 9003-04-7, Poly(acrylic acid) sodium salt

RL: PRP (Properties)

(chain rotational dynamics of spin-labeled, with various degrees of neutralization, ESR study of)

RN 9003-04-7 HCPLUS

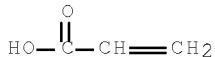
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C3 H4 O2)x
 CCI PMS

CM 2

CRN 79-10-7
 CMF C3 H4 O2



IT 9003-39-8, Poly(N-vinylpyrrolidone)

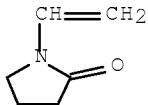
RL: PRP (Properties)
 (complexation of, with poly(acrylic acid), effect of
 neutralization degree on, chain dynamics in relation to)

RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



IT 9003-01-4, Poly(acrylic acid)

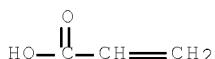
RL: PRP (Properties)
 (complexation of, with poly(vinylpyrrolidone) and
 polyoxyethylene, effect of neutralization degree on, chain
 dynamics in relation to)

RN 9003-01-4 HCPLUS

CN 2-Propenoic acid, homopolymer (CA INDEX NAME)

CM 1

CRN 79-10-7
 CMF C3 H4 O2

IT 52284-08-9P, Poly(acrylic acid)-poly(ethylene oxide)
 complex 102685-02-9P, Poly(acrylic

acid)-poly(N-vinylpyrrolidone) complex

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, effect of neutralization degree on, chain dynamics
in relation to)

RN 52284-08-9 HCPLUS

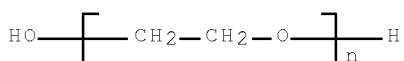
CN 2-Propenoic acid, homopolymer, compd. with
α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl) (CA INDEX
NAME)

CM 1

CRN 25322-68-3

CMF (C₂ H₄ O)_n H₂ O

CCI PMS



CM 2

CRN 9003-01-4

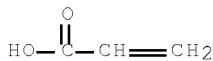
CMF (C₃ H₄ O₂)_x

CCI PMS

CM 3

CRN 79-10-7

CMF C₃ H₄ O₂



RN 102685-02-9 HCPLUS

CN 2-Propenoic acid, homopolymer, compd. with 1-ethenyl-2-pyrrolidinone
homopolymer (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 9003-39-8

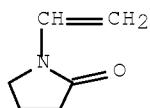
CMF (C₆ H₉ N O)_x

CCI PMS

CM 2

CRN 88-12-0

CMF C₆ H₉ N O

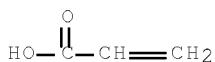


CM 3

CRN 9003-01-4
 CMF (C3 H4 O2)x
 CCI PMS

CM 4

CRN 79-10-7
 CMF C3 H4 O2



CC 36-7 (Physical Properties of Synthetic High Polymers)

IT Electron spin resonance
 (of poly(acrylic acid) sodium salt with various degrees
 of neutralization, chain rotational dynamics in relation to)

IT Chains, chemical
 (rotational dynamics of, of spin-labeled poly(acrylic acid)
 sodium salt with various degrees of neutralization, ESR
 study of)

IT 9003-04-7, Poly(acrylic acid) sodium salt
 RL: PRP (Properties)
 (chain rotational dynamics of spin-labeled, with various degrees
 of neutralization, ESR study of)

IT 9003-39-8, Poly(N-vinylpyrrolidone) 25322-68-3
 RL: PRP (Properties)

IT 9003-01-4, Poly(acrylic acid)
 RL: PRP (Properties)
 (complexation of, with poly(vinylpyrrolidone), effect of
 neutralization degree on, chain dynamics in relation to)

IT 52284-08-9P, Poly(acrylic acid)-poly(ethylene oxide)
 complex 102685-02-9P, Poly(acrylic
 acid)-poly(N-vinylpyrrolidone) complex
 RL: FORM (Formation, nonpreparative); PREP (Preparation)

IT (formation of, effect of neutralization degree on, chain dynamics
 in relation to)

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS
 RECORD (9 CITINGS)

TITLE: Gas-phase suspension graft polymerization and product thereof
 INVENTOR(S): Zhang, Liansheng
 PATENT ASSIGNEE(S): Heilongjiang University, Peop. Rep. China
 SOURCE: Faming Zhanli Shenqing Gongkai Shuomingshu, 15 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
CN 1074914	A	19930804	CN 1992-114805	199212 18
				<--
PRIORITY APPLN. INFO.:			CN 1992-114805	199212 18
				<--

AB The process producing acrylic acid graft copolymers useful for drilling fluid additives, paper strengtheners, water absorbents, etc., comprises stirring with additives a gas dispersant and a droplet dispersing phase containing polymers, monomers, initiators, mol. regulators, and crosslinking agents to form a gaseous suspension system and graft polymerizing in the dispersion phase while removing water and unreacted monomers by the gas dispersant which is now given off by the polymerization heat. Adding Ca(OH)2 3.7, Na2CO3 21.2, and sorbitol monooleate 1.0 g to a mixture containing corn starch 16.2, acrylamide 14.2, EDTA 2Na salt 0.1, and H2O 15 g, adding acrylic acid 36, AIBN 2.5, Ninol (lauric acid ethanolamide) 1.0 g, 2.0 mL 0.1 M (NH4)2SO4, and 0.5 mL Ce(SO4)2, vigorously stirring for 2 min, heating the CO2 dispersion system at 50°, connecting the system to a vacuum when the temperature rised to 140°, and stirring with 2.0 g sorbitol stearate gave 66.5 g granular product, which was used as water-retaining agent in corn seeding.

IT 106434-19-9P, Acrylamide-acrylic acid-starch graft copolymer 156017-21-9P 156017-22-0P
 156017-23-1P 156017-25-3P 156017-26-4P

RL: IMF (Industrial manufacture); PREP
 (Preparation)

(manufacture of, by gas-phase suspension polymerization)

RN 106434-19-9 HCAPLUS

CN Starch, polymer with 2-propenamide and 2-propenoic acid, graft (CA INDEX NAME)

CM 1

CRN 9005-25-8

CMF Unspecified

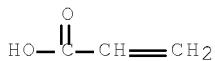
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

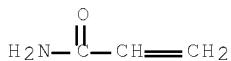
CRN 79-10-7

CMF C3 H4 O2



CM 3

CRN 79-06-1
 CMF C3 H5 N O

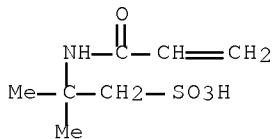


RN 156017-21-9 HCAPLUS

CN Starch, methyl ether, polymer with N,N'-methylenebis[2-propenamide], 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

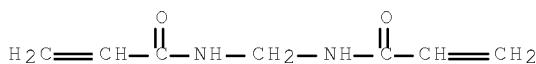
CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



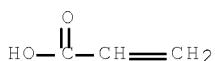
CM 2

CRN 110-26-9
 CMF C7 H10 N2 O2



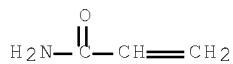
CM 3

CRN 79-10-7
 CMF C3 H4 O2



CM 4

CRN 79-06-1
 CMF C3 H5 N O



CM 5

CRN 37189-22-3
 CMF C H4 O . x Unspecified

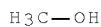
CM 6

CRN 9005-25-8
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 7

CRN 67-56-1
 CMF C H4 O

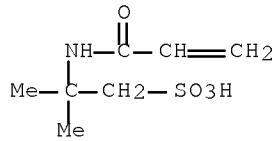


RN 156017-22-0 HCPLUS

CN Cellulose, carboxymethyl ether, sodium salt, polymer with
 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid,
 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

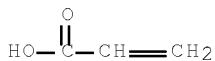
CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



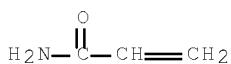
CM 2

CRN 79-10-7
 CMF C3 H4 O2



CM 3

CRN 79-06-1
 CMF C3 H5 N O



CM 4

CRN 9004-32-4
 CMF C2 H4 O3 . x Na . x Unspecified

CM 5

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 6

CRN 79-14-1
 CMF C2 H4 O3

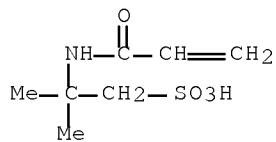


RN 156017-23-1 HCPLUS

CN Cellulose, carboxymethyl ether, sodium salt, polymer with
 1-ethenyl-2-pyrrolidinone, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-
 propanesulfonic acid, 2-propenamide and 2-propenoic acid, graft
 (9CI) (CA INDEX NAME)

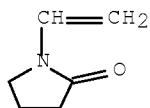
CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



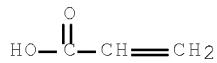
CM 2

CRN 88-12-0
 CMF C6 H9 N O



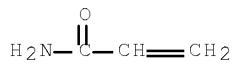
CM 3

CRN 79-10-7
 CMF C3 H4 O2



CM 4

CRN 79-06-1
 CMF C3 H5 N O



CM 5

CRN 9004-32-4
 CMF C2 H4 O3 . x Na . x Unspecified

CM 6

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 7

CRN 79-14-1
CMF C2 H4 O3

RN 156017-25-3 HCPLUS

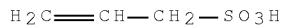
CN Starch, polymer with 2-propenamide, 2-propene-1-sulfonic acid and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

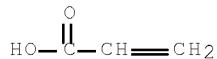
CRN 9005-25-8
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 1606-80-0
CMF C3 H6 O3 S

CM 3

CRN 79-10-7
CMF C3 H4 O2

CM 4

CRN 79-06-1
CMF C3 H5 N O

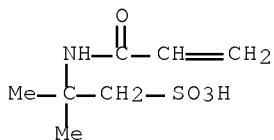
RN 156017-26-4 HCPLUS

CN Starch, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, 2-propenamide and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

CMF C7 H13 N O4 S



CM 2

CRN 9005-25-8

CMF Unspecified

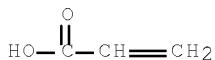
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



IC ICM C08F251-00

CC 35-8 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 19, 38, 51

IT 106434-19-9P, Acrylamide-acrylic acid-starch graft copolymer 156017-21-9P 156017-22-0P

156017-23-1P 156017-25-3P 156017-26-4P

RL: IMF (Industrial manufacture); PREP
(Preparation)

(manufacture of, by gas-phase suspension polymerization)

L40 ANSWER 22 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1993:474576 HCPLUS Full-text
 DOCUMENT NUMBER: 119:74576
 ORIGINAL REFERENCE NO.: 119:13425a,13428a
 TITLE: Water absorptive fabric and its manufacture
 INVENTOR(S): Umeda, Masanari; Sakuraba, Yukio; Baba, Hiroshi
 PATENT ASSIGNEE(S): Tokai Rubber Industries, Ltd., USA; Sumitomo
 Electric Industries, Ltd.
 SOURCE: U.S., 4 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5204175	A	19930420	US 1991-711888	199106 07 --- US 1991-711888

PRIORITY APPLN. INFO.: 199106
07
AB Title fabric, having sufficient flexibility to be formed about a communication cable, contains a water absorptive polymeric layer which is prepared by the in situ reaction of a metal salt of acrylic acid, a crosslinking agent, and a water soluble resin. A composition containing Na acrylate 100, N,N'-methylenebisacrylamide 2, an initiator 0.2, polyethylene glycol 20, and water 100 parts was used to impregnated a nonwoven spunbonded polyester fabric and heated at 160° to give a substrate with excellent flexibility and a hygroscopic swelling ratio 2.5 (3 min).

IT 25359-44-8, N,N'-Methylenebis acrylamide-sodium acrylate copolymer

RL: USES (Uses)
(water-absorptive, fabric composites of, flexible, for tapes for communication cables)

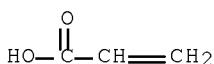
RN 25359-44-8 HCPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with N,N'-methylenebis[2-propenamide] (CA INDEX NAME)

CM 1

CRN 7446-81-3

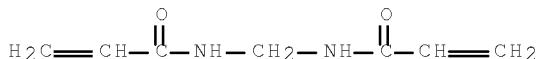
CMF C3 H4 O2 . Na



● Na

CM 2

CRN 110-26-9
 CMF C7 H10 N2 O2



IT 9003-04-7P, Sodium polyacrylate 9003-05-8P,
 Polyacrylamide 9003-39-8P, Polyvinylpyrrolidone
 25086-89-9P, Vinyl acetate-vinylpyrrolidone copolymer
 RL: PREP (Preparation)
 (water-soluble in manufacture of water-absorptive flexible textile
 composites)

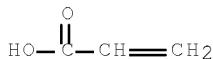
RN 9003-04-7 HCPLUS
 CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
 CMF (C3 H4 O2)x
 CCI PMS

CM 2

CRN 79-10-7
 CMF C3 H4 O2



RN 9003-05-8 HCPLUS
 CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

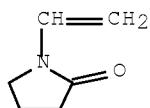
CRN 79-06-1
 CMF C3 H5 N O



RN 9003-39-8 HCPLUS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0
 CMF C6 H9 N O



RN 25086-89-9 HCPLUS

CN Acetic acid ethenyl ester, polymer with 1-ethenyl-2-pyrrolidinone
(CA INDEX NAME)

CM 1

CRN 108-05-4

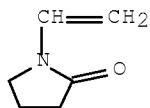
CMF C4 H6 O2



CM 2

CRN 88-12-0

CMF C6 H9 N O



IC ICM B32B027-04

ICS B32B027-18; B32B033-00; G02B006-44; H02G003-14

INCL 428288000

CC 40-10 (Textiles and Fibers)

ST water absorptive textile crosslinked polyacrylate; salt
acrylate crosslinked water absorption; communication cable tape
polyacrylate fabric composite

IT Acrylic polymers, preparation

RL: PREP (Preparation)
(carboxy-containing, metal salts, water-absorptive, fabric
composites of, flexible, for tapes for communication cables)IT 25359-44-8, N,N'-Methylenebis acrylamide-sodium acrylate
copolymerRL: USES (Uses)
(water-absorptive, fabric composites of, flexible, for tapes for
communication cables)IT 9002-89-5P, Poly(vinyl alcohol) 9002-98-6P 9003-04-7P,
Sodium polyacrylate 9003-05-8P, Polyacrylamide
9003-39-8P, Polyvinylpyrrolidone 25086-89-9P,
Vinyl acetate-vinylpyrrolidone copolymer 25322-68-3P, Polyethylene
glycolRL: PREP (Preparation)
(water-soluble in manufacture of water-absorptive flexible textile
composites)

September 12, 2009

10/591,796

178

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1993:193892 HCAPLUS Full-text
 DOCUMENT NUMBER: 118:193892
 ORIGINAL REFERENCE NO.: 118:33285a,33288a
 TITLE: Emulsifier-free polymer dispersions and their preparation for use in paper coatings
 INVENTOR(S): Bankowsky, Heinz Hilmar; Rau, Maria Gyopar; Schumacher, Karl Heinz
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 11 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4113839	A1	19921029	DE 1991-4113839	199104 27
EP 511520	A1	19921104	EP 1992-105871	199204 04
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE JP 05117310	A	19930514	JP 1992-102913	199204 22
CA 2066988	A1	19921028	CA 1992-2066988	199204 24
PRIORITY APPLN. INFO.:			DE 1991-4113839	A 199104 27

AB The title dispersions are prepared by radical polymerization of ethylenically unsatd. monomer in an aqueous medium containing a polymer, the monomers and polymerization initiator being added simultaneously during polymerization. An aqueous solution containing 40:60 acrylic acid-styrene copolymer ammonium salt and ammonium persulfate (I) was treated simultaneously with I solution and styrene at 85° to give a stable polymer dispersion having average particle size 135 µm.
 IT 9003-05-8P, Polyacrylamide 9003-39-8P,
 Poly(vinyl pyrrolidinone) 9003-42-3P, Poly(ethyl methacrylate) 9003-49-0P, Poly(butyl acrylate) 9003-63-8P, Poly(butyl methacrylate) 9003-77-4P,
 Poly(2-ethylhexyl acrylate) 9011-14-7P, Poly(methyl methacrylate) 25189-00-8P, Poly(tert-butyl methacrylate) 25232-27-3P, Poly(tert-butyl acrylate) 25767-47-9P

, Butyl acrylate-styrene copolymer 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer 26246-92-4P, Poly(lauryl acrylate) 26335-74-0P, Poly(isobutyl acrylate) 27103-47-5P, Poly(hexyl acrylate) 27155-22-2P, Acrylic acid-methyl acrylate-methyl methacrylate copolymer 29132-58-9P, Acrylic acid-maleic acid copolymer 35209-54-2P, Acrylic acid-styrene copolymer ammonium salt 38139-94-5P 55141-01-0P, Poly(2-acrylamido-2-methylpropanesulfonic acid) sodium salt 60472-42-6P, Acrylic acid-maleic acid copolymer sodium salt
RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of emulsifier-free dispersion of, for coating paper)

RN 9003-05-8 HCPLUS

CN 2-Propenamide, homopolymer (CA INDEX NAME)

CM 1

CRN 79-06-1

CMF C3 H5 N O



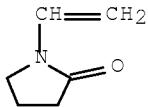
RN 9003-39-8 HCPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



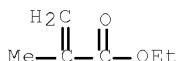
RN 9003-42-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 97-63-2

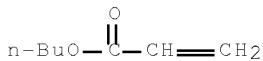
CMF C6 H10 O2



RN 9003-49-0 HCPLUS
 CN 2-Propenoic acid, butyl ester, homopolymer (CA INDEX NAME)

CM 1

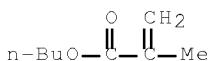
CRN 141-32-2
 CMF C7 H12 O2



RN 9003-63-8 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, butyl ester, homopolymer (CA INDEX NAME)

CM 1

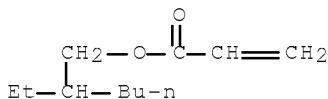
CRN 97-88-1
 CMF C8 H14 O2



RN 9003-77-4 HCPLUS
 CN 2-Propenoic acid, 2-ethylhexyl ester, homopolymer (CA INDEX NAME)

CM 1

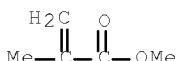
CRN 103-11-7
 CMF C11 H20 O2



RN 9011-14-7 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, homopolymer (CA INDEX NAME)

CM 1

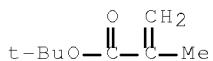
CRN 80-62-6
 CMF C5 H8 O2



RN 25189-00-8 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, homopolymer
 (CA INDEX NAME)

CM 1

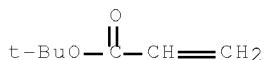
CRN 585-07-9
 CMF C8 H14 O2



RN 25232-27-3 HCPLUS
 CN 2-Propenoic acid, 1,1-dimethylethyl ester, homopolymer (CA INDEX
 NAME)

CM 1

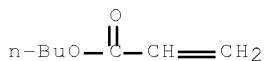
CRN 1663-39-4
 CMF C7 H12 O2



RN 25767-47-9 HCPLUS
 CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene (CA
 INDEX NAME)

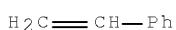
CM 1

CRN 141-32-2
 CMF C7 H12 O2



CM 2

CRN 100-42-5
 CMF C8 H8



RN 25852-37-3 HCPLUS

September 12, 2009

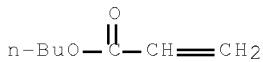
10/591,796

182

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate (CA INDEX NAME)

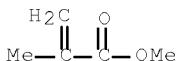
CM 1

CRN 141-32-2
CMF C7 H12 O2



CM 2

CRN 80-62-6
CMF C5 H8 O2

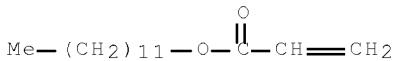


RN 26246-92-4 HCPLUS

CN 2-Propenoic acid, dodecyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 2156-97-0
CMF C15 H28 O2

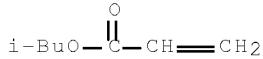


RN 26335-74-0 HCPLUS

CN 2-Propenoic acid, 2-methylpropyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 106-63-8
CMF C7 H12 O2

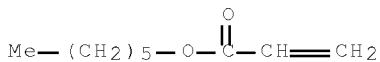


RN 27103-47-5 HCPLUS

CN 2-Propenoic acid, hexyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 2499-95-8
 CMF C9 H16 O2



RN 27155-22-2 HCPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with methyl 2-propenoate and 2-propenoic acid (CA INDEX NAME)

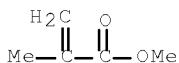
CM 1

CRN 96-33-3
 CMF C4 H6 O2



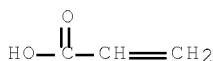
CM 2

CRN 80-62-6
 CMF C5 H8 O2



CM 3

CRN 79-10-7
 CMF C3 H4 O2

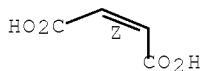


RN 29132-58-9 HCPLUS
 CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid (CA INDEX NAME)

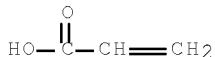
CM 1

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 2

CRN 79-10-7
CMF C3 H4 O2

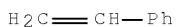
RN 35209-54-2 HCPLUS

CN 2-Propenoic acid, polymer with ethenylbenzene, ammonium salt (CA INDEX NAME)

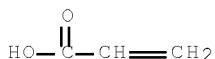
CM 1

CRN 25085-34-1
CMF (C8 H8 . C3 H4 O2)x
CCI PMS

CM 2

CRN 100-42-5
CMF C8 H8

CM 3

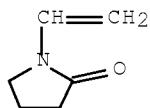
CRN 79-10-7
CMF C3 H4 O2

RN 38139-94-5 HCPLUS

CN 2-Propenamide, 2-methyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

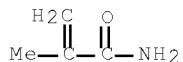
CM 1

CRN 88-12-0
CMF C6 H9 N O



CM 2

CRN 79-39-0
 CMF C4 H7 N O



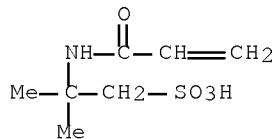
RN 55141-01-0 HCPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 27119-07-9
 CMF (C7 H13 N O4 S)x
 CCI PMS

CM 2

CRN 15214-89-8
 CMF C7 H13 N O4 S



RN 60472-42-6 HCPLUS
 CN 2-Butenedioic acid (2Z)-, polymer with 2-propenoic acid, sodium salt (CA INDEX NAME)

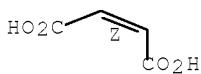
CM 1

CRN 29132-58-9
 CMF (C4 H4 O4 . C3 H4 O2)x
 CCI PMS

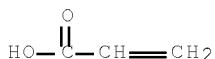
CM 2

CRN 110-16-7
 CMF C4 H4 O4

Double bond geometry as shown.



CM 3

CRN 79-10-7
CMF C3 H4 O2

IC ICM C08F002-16
 ICS C08F020-00; C08F018-00; C08F016-12; C08F014-00; C08F012-00;
 C08F010-00; C09D005-02; D21H019-12
 ICA C08F002-18; C08F002-22; C08F020-10; C08F020-42; C08F020-54
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 37, 42
 ST vinyl polymer dispersion coating paper; styrene polymer
 dispersion coating paper; acrylic polymer dispersion
 coating paper; polymn radical dispersion emulsifier free
 IT Paper
 (coatings for, emulsifier-free aqueous polymer dispersions
 for)
 IT Coating materials
 (dispersion, vinyl polymers, emulsifier-free, for
 paper)
 IT Polymerization catalysts
 (radical, for vinyl monomers, for emulsifier-free
 dispersions for paper coatings)
 IT 7727-54-0, Ammonium peroxydisulfate
 RL: CAT (Catalyst use); USES (Uses)
 (catalysts, for polymerization, for emulsifier-free vinyl polymer
 dispersions)
 IT 9003-05-8P, Polyacrylamide 9003-39-8P,
 Poly(vinyl pyrrolidinone) 9003-42-3P, Poly(ethyl
 methacrylate) 9003-49-0P, Poly(butyl acrylate)
 9003-53-6P, Polystyrene 9003-63-8P, Poly(butyl
 methacrylate) 9003-77-4P, Poly(2-ethylhexyl acrylate)
 9004-62-0P 9011-14-7P, Poly(methyl methacrylate)
 25153-40-6P, Maleic acid-methyl vinyl ether copolymer
 25189-00-8P, Poly(tert-butyl methacrylate) 25213-24-5P
 25232-27-3P, Poly(tert-butyl acrylate) 25322-68-3P,
 Poly(ethylene oxide) 25767-47-9P, Butyl acrylate-styrene
 copolymer 25852-37-3P, Butyl acrylate-methyl
 methacrylate copolymer 26246-92-4P, Poly(lauryl
 acrylate) 26335-74-0P, Poly(isobutyl acrylate)
 27103-47-5P, Poly(hexyl acrylate) 27155-22-2P,
 Acrylic acid-methyl acrylate-methyl methacrylate copolymer
 29132-58-9P, Acrylic acid-maleic acid copolymer
 35209-54-2P, Acrylic acid-styrene copolymer ammonium

salt 38139-94-5P 55141-01-0P,
 Poly(2-acrylamido-2-methylpropanesulfonic acid) sodium salt
 56619-17-1P, Diisobutylene-maleic acid copolymer sodium salt
 60472-42-6P, Acrylic acid-maleic acid copolymer sodium
 salt

RL: IMF (Industrial manufacture); PREP
 (Preparation)

(preparation of emulsifier-free dispersion of, for coating
 paper)

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS
 RECORD (10 CITINGS)

L40 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1991:409679 HCAPLUS Full-text
 DOCUMENT NUMBER: 115:9679
 ORIGINAL REFERENCE NO.: 115:1883a,1886a
 TITLE: Phosphonomethylated poly(vinyl amines) as wash
 formulation additive and water-treatment
 chemicals
 INVENTOR(S): Mohr, Juergen; Oppenlaender, Knut; Denzinger,
 Walter; Hartmann, Heinrich; Baur, Richard;
 Gousetis, Charalampos; Kud, Alexander
 PATENT ASSIGNEE(S): BASF A.-G., Germany
 SOURCE: Ger. Offen., 17 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3926059	A1	19910214	DE 1989-3926059	198908 07 ---
DE 3926059	C2	19980129		
WO 9102011	A1	19910221	WO 1990-EP1284	199008 06 ---
W: JP, US JP 04506981	T	19921203	JP 1990-512125	199008 06 ---
JP 2880287 US 6264839	B2	19990405		199307 12 ---
PRIORITY APPLN. INFO.:			DE 1989-3926059	A 198908 07 ---
			WO 1990-EP1284	W 199008 06 ---

US 1991-775929

B3

199111

06

<--

AB The title polymers, having repeat units $\text{CH}_2\text{CHN}(\text{R}1)\text{CH}_2\text{P}(:\text{O})(\text{OX})_2$ [$\text{R}1 = \text{H, C}_1\text{-6 alkyl, CH}_2\text{P}(:\text{O})(\text{OX})_2$; $\text{X} = \text{H, alkali metal, ammonium, alkaline earth metal}$], are prepared and are useful as water-treatment chems., laundry bleach stabilizers, and detergent formulation chems. Thus, 500 g of isopropanol was heated to boiling, and, over 3 h, a solution of 270.4 g acrylic acid and 29.6 g N-vinylformamide dissolved in 100 g isopropanol were added along with a solution of 9 g tert-Bu perethylhexanoate in 100 g isopropanol, the isopropanol azeotropically distilled off, producing a 27% aqueous polymer solution, 125 parts of which was reacted with 150 parts concentrated HCl at reflux and esterified with phosphorous acid and neutralized with NaOH, producing a solid product which had K value (Na salt, 1% in H_2O) 25.

IT 113986-34-8DP, N-Vinylformamide-N-vinylpyrrolidone copolymer, hydrolysis products, phosphonomethylated products, salts 114239-36-0DP, hydrolysis products, phosphonomethylated products, salts 134367-40-1DP, hydrolysis products, phosphonomethylated products, salts 134367-41-2DP, hydrolysis products, phosphonomethylated products, salts

RL: IMF (Industrial manufacture); PREP
(Preparation)
(manufacture of, as laundry bleach stabilizers and water-treatment chems.)

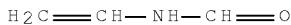
RN 113986-34-8 HCPLUS

CN Formamide, N-ethenyl-, polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

CRN 13162-05-5

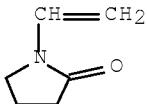
CMF C3 H5 N O



CM 2

CRN 88-12-0

CMF C6 H9 N O

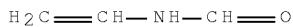


RN 114239-36-0 HCPLUS

CN 2-Propenoic acid, methyl ester, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 13162-05-5
 CMF C3 H5 N O



CM 2

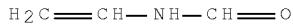
CRN 96-33-3
 CMF C4 H6 O2



RN 134367-40-1 HCAPLUS
 CN 2-Propenoic acid, polymer with N-ethenylformamide (CA INDEX NAME)

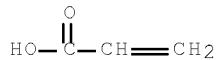
CM 1

CRN 13162-05-5
 CMF C3 H5 N O



CM 2

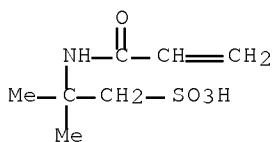
CRN 79-10-7
 CMF C3 H4 O2



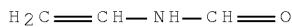
RN 134367-41-2 HCAPLUS
 CN 1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-, polymer with N-ethenylformamide (CA INDEX NAME)

CM 1

CRN 15214-89-8
 CMF C7 H13 N O4 S



CM 2

CRN 13162-05-5
CMF C3 H5 N O

IC ICM C08F030-02
 ICS C08F008-40; C02F001-68
 ICA C08F026-02; B01J039-20; B01F017-52; C11D003-37
 CC 35-8 (Chemistry of Synthetic High Polymers)
 Section cross-reference(s): 46, 61
 IT 1310-73-2DP, Sodium hydroxide, salts with
 phosphonomethylated poly(vinylamines) 13598-36-2DP, Phosphorous
 acid, reaction products with hydrolyzed vinylformamide polymers
 72018-12-3DP, N-Vinylformamide homopolymer, hydrolysis products,
 phosphonomethylated products, salts 108941-57-7DP,
 hydrolysis products, phosphonomethylated products, salts
 113986-34-8DP, N-Vinylformamide-N-vinylpyrrolidone
 copolymer, hydrolysis products, phosphonomethylated products,
 salts 114239-36-0DP, hydrolysis products,
 phosphonomethylated products, salts
 134367-40-1DP, hydrolysis products, phosphonomethylated
 products, salts 134367-41-2DP, hydrolysis
 products, phosphonomethylated products, salts
 134367-42-3DP, hydrolysis products, phosphonomethylated products,
 salts 134367-43-4DP, hydrolysis products,
 phosphonomethylated products, salts 134367-46-7DP,
 hydrolysis products, phosphonomethylated products, salts
 RL: IMF (Industrial manufacture); PREP
 (Preparation)
 (manufacture of, as laundry bleach stabilizers and water-treatment
 chems.)
 OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS
 RECORD (4 CITINGS)
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN
 THE RE FORMAT

L40 ANSWER 25 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1985:205767 HCPLUS Full-text
 DOCUMENT NUMBER: 102:205767
 ORIGINAL REFERENCE NO.: 102:32255a,32258a
 TITLE: Studies on special type surfactants. XIV.
 Preparation of telomer-type surfactants from
 vinylpyrrolidone and methyl acrylate and their
 application to detergent builders

AUTHOR(S): Yagami, Kazuo; Hotuta, Osamu; Nakagawa, Mayumi;

Yamada, Kimiho

CORPORATE SOURCE: Fac. Living Sci., Kumamoto Women's Univ.,

Kumamoto, Japan

SOURCE: Yukagaku (1985), 34(3), 191-7

CODEN: YKGKAM; ISSN: 0513-398X

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Telomers were prepared from vinylpyrrolidone, Me acrylate, and C12H25SH in C6H6 with AIBN as the initiator and then saponified to various degree with NaOH. The critical micelle concentration and chelating power of the telomers increased with increasing degree of saponification, but the lime soap dispersing power, Orange OT solubilization, and antiredeposition power decreased. Surface tension and CaCO₃ dispersion ability were highest at 50 mol% saponification. The detergency of the detergents prepared from the telomers, builders, and LAS or soap decreased as the degree of saponification increased. With regard to the effects of functional groups on detergency, the combination of pyrrolidone and methoxycarbonyl groups was superior to individual carboxy, carbamoyl, and pyrrolidone groups or their combinations. The telomers had the strongest detergency effect when the d.p. was 10. The telomers were effective when present in 5-10% concentration in the detergent.

IT 96538-00-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and detergent builder performance of)

RN 96538-00-0 HCPLUS

CN 2-Propenoic acid, methyl ester, telomer with 1-dodecanethiol and 1-ethenyl-2-pyrrolidinone, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 112-55-0

CMF C12 H26 S

HS—(CH₂)₁₁—Me

CM 2

CRN 27155-03-9

CMF (C₆ H₉ N O . C₄ H₆ O₂)_x

CCI PMS

CM 3

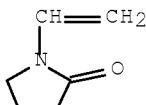
CRN 96-33-3

CMF C₄ H₆ O₂



CM 4

CRN 88-12-0
 CMF C6 H9 N O



CC 46-5 (Surface Active Agents and Detergents)
 Section cross-reference(s): 35

IT Detergents
 (builders for, dodecanethiol-Me acrylate-vinylpyrrolidone telomer
 sodium salt as)
 IT 96538-00-0P
 RL: IMF (Industrial manufacture); TEM (Technical or
 engineered material use); PREP (Preparation); USES (Uses)
 (preparation and detergent builder performance of)

L40 ANSWER 26 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1983:113761 HCPLUS Full-text
 DOCUMENT NUMBER: 98:113761
 ORIGINAL REFERENCE NO.: 98:17233a,17236a
 TITLE: Absorbents for blood and serous body fluids
 INVENTOR(S): Chmelir, Miroslav; Dahmen, Kurt; Hoffmann,
 Georg; Werner, Georg
 PATENT ASSIGNEE(S): Chemische Fabrik Stockhausen G.m.b.H., Fed. Rep.
 Ger.
 SOURCE: Ger. Offen., 16 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3128100	A1	19830127	DE 1981-3128100	198107 16
DE 3128100	C2	19860522		<--
WO 8300289	A1	19830203	WO 1982-DE146	198207 10
W: JP, US EP 71063	A1	19830209	EP 1982-106196	198207 10
EP 71063	B1	19851211		<--
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE JP 58501107	T	19830714	JP 1982-502173	198207 10

September 12, 2009

10/591,796

193

JP 05081263
AT 16891

B 19931112
T 19851215 AT 1982-106196

198207
10

PRIORITY APPLN. INFO.:

<--
DE 1981-3128100

A 198107
16

<--
EP 1982-106196

A 198207
10

<--
WO 1982-DE146

W 198207
10

<--

AB Absorbents for blood and serous body fluids consist of 2 components, 25-98 weight% A and 2-75 weight% B, in which the component A is a crosslinked, water-swellable, synthetic or natural polymer or copolymer and component B is an inorg. or organic solid at room temperature and is H₂O-soluble. The absorbents can be utilized for absorbing waste products and in sanitary napkins. Thus, a mixture of acrylic acid 328, and N,N'-methylenebis(acrylamide) 2.6 g was dissolved in 980 g H₂O and the solution treated with 127.5 g NaHCO₃ at pH 4.0 and polymerized in the presence of a mixture of azobis(amidinepropane)-2HCl 0.36, K₂S₂O₈ 0.73, Na pyrosulfate 1.34 and Fe(II) gluconate 0.06 g. The polymer gel obtained was washed, dried and pulverized. KCl and this polymer were mixed in a ratio of 1:2 and utilized as the absorbent. The rate of distribution of blood in the absorbent was determined

IT 9003-04-7 25085-02-3 77019-71-7

RL: BIOL (Biological study)
(absorbent for blood or serous body fluids)

RN 9003-04-7 HCPLUS

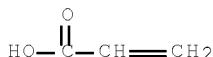
CN 2-Propenoic acid, homopolymer, sodium salt (CA INDEX NAME)

CM 1

CRN 9003-01-4
CMF (C₃ H₄ O₂)_x
CCI PMS

CM 2

CRN 79-10-7
CMF C₃ H₄ O₂



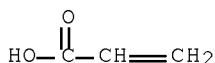
RN 25085-02-3 HCPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



● Na

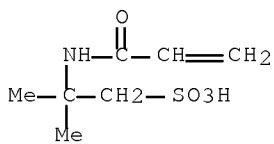
CM 2

CRN 79-06-1
CMF C3 H5 N ORN 77019-71-7 HCPLUS
CN 2-Propenoic acid, polymer with
2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonic acid,
sodium salt (CA INDEX NAME)

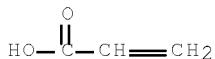
CM 1

CRN 40623-75-4
CMF (C7 H13 N O4 S . C3 H4 O2)x
CCI PMS

CM 2

CRN 15214-89-8
CMF C7 H13 N O4 S

CM 3

CRN 79-10-7
CMF C3 H4 O2

IT 30280-72-9DP, reaction products with ammonia
 54843-66-2P 84943-77-1P 84943-79-3P
 84943-81-7P 85004-41-7P
 RL: PREP (Preparation)
 (preparation of, as absorbent for blood or serous body fluids)

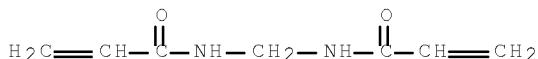
RN 30280-72-9 HCPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide] (CA INDEX NAME)

CM 1

CRN 110-26-9

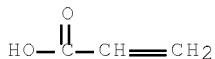
CMF C7 H10 N2 O2



CM 2

CRN 79-10-7

CMF C3 H4 O2



RN 54843-66-2 HCPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide], sodium salt (CA INDEX NAME)

CM 1

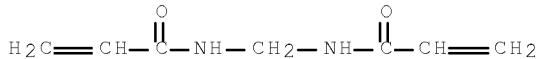
CRN 30280-72-9

CMF (C7 H10 N2 O2 . C3 H4 O2)x
 CCI PMS

CM 2

CRN 110-26-9

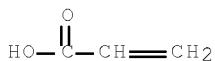
CMF C7 H10 N2 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



RN 84943-77-1 HCPLUS

CN 2-Propenoic acid, polymer with N,N'-methylenebis[2-propenamide] and 2-propenamide, sodium salt (CA INDEX NAME)

CM 1

CRN 27791-59-9

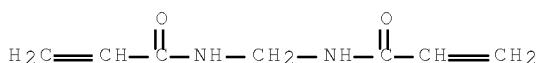
CMF (C7 H10 N2 O2 . C3 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

CRN 110-26-9

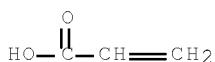
CMF C7 H10 N2 O2



CM 3

CRN 79-10-7

CMF C3 H4 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



RN 84943-79-3 HCPLUS

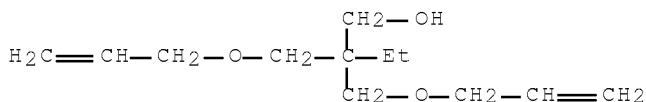
CN 2-Propenoic acid, 2-methyl-, polymer with 2,2-bis[(2-propenoxy)methyl]-1-butanol and 1-ethenyl-2-pyrrolidinone, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 84943-78-2
 CMF (C12 H22 O3 . C6 H9 N O . C4 H6 O2)x
 CCI PMS

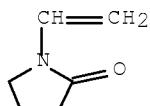
CM 2

CRN 682-09-7
 CMF C12 H22 O3



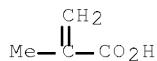
CM 3

CRN 88-12-0
 CMF C6 H9 N O



CM 4

CRN 79-41-4
 CMF C4 H6 O2



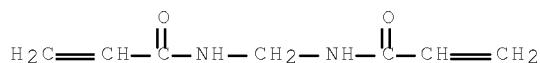
RN 84943-81-7 HCAPLUS
 CN 2-Propenoic acid, polymer with 1-ethenyl-2-pyrrolidinone and
 N,N'-methylenebis[2-propenamide], sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 84943-80-6
 CMF (C7 H10 N2 O2 . C6 H9 N O . C3 H4 O2)x
 CCI PMS

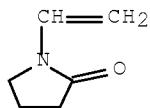
CM 2

CRN 110-26-9
 CMF C7 H10 N2 O2



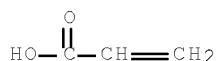
CM 3

CRN 88-12-0
 CMF C6 H9 N O



CM 4

CRN 79-10-7
 CMF C3 H4 O2



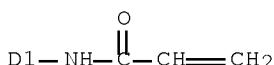
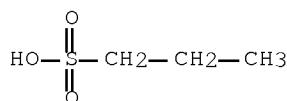
RN 85004-41-7 HCPLUS
 CN 2-Propenoic acid, polymer with
 3,3',3'',3'''-[1,2-ethanediylidenetetrakis(oxy)]tetrakis[1-propene]
 and [(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, sodium salt
 (9CI) (CA INDEX NAME)

CM 1

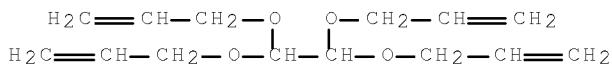
CRN 85004-40-6
 CMF (C14 H22 O4 . C6 H11 N O4 S . C3 H4 O2)x
 CCI PMS

CM 2

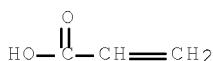
CRN 70069-82-8
 CMF C6 H11 N O4 S
 CCI IDS



CM 3

CRN 16646-44-9
CMF C14 H22 O4

CM 4

CRN 79-10-7
CMF C3 H4 O2

IC B01J020-22; A61F013-18; A61F013-20
 CC 63-7 (Pharmaceuticals)
 ST absorbent blood body fluid; polymer salt absorbent body fluid; sanitary napkin absorbent
 IT Absorbents
 (polymer and salts, for absorption of blood or serous body fluids)
 IT Surgical dressings and goods
 (sanitary napkins, absorbents in, polymers and salts in)
 IT 62-56-6, biological studies 9003-04-7 9004-32-4
 9004-34-6, biological studies 9005-25-8, biological studies
 9032-42-2 25085-02-3 77019-71-7
 RL: BIOL (Biological study)
 (absorbent for blood or serous body fluids)
 IT 30280-72-9DP, reaction products with ammonia
 54843-66-2P 84943-77-1P 84943-79-3P
 84943-81-7P 85004-41-7P
 RL: PREP (Preparation)
 (preparation of, as absorbent for blood or serous body fluids)
 OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L40 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1978:568960 HCAPLUS Full-text
 DOCUMENT NUMBER: 89:168960
 ORIGINAL REFERENCE NO.: 89:26117a,26120a
 TITLE: Hair preparations
 PATENT ASSIGNEE(S): La Maur, Inc., USA
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53101541	A	19780905	JP 1977-16633	197702 16
<--				
PRIORITY APPLN. INFO.:			JP 1977-16633	A
				197702 16
<--				

AB Hair prepns. comprise salts of copolymers of $\text{CH}_2:\text{CMeCON-N+Me}_2\text{CH}_2\text{CH(OH)Me}$ (I) (1-20%), N-vinylpyrrolidine (8-45%) and vinyl acetate (35-89%) as main ingredient. The prepns. are H_2O (moisture)-resistant, but dispersible in acidic or alkaline solns. and soluble in EtOH. Thus, I, N-vinylpyrrolidine, vinyl acetate, adipic acid, initiators and solvents were mixed and stirred to form N-[dimethyl(2-hydroxypropyl)ammonium]methacrylimide-vinyl acetate-N-vinylpyrrolidine copolymer adipic acid salt [62599-89-7].

IT 62599-89-7P
 RL: PREP (Preparation)
 (preparation of, for hair prepns.)

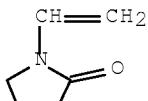
RN 62599-89-7 HCPLUS

CN Hydrazinium, 1-(2-hydroxypropyl)-1,1-dimethyl-2-(2-methyl-1-oxo-2-propenyl)-, hexanedioate (2:1) (salt), polymer with ethenyl acetate and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

CM 1

CRN 108-05-4
CMF C4 H6 O2AcO—CH=CH₂

CM 2

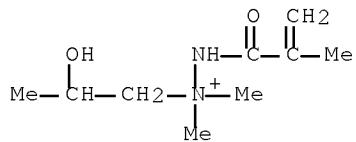
CRN 88-12-0
CMF C6 H9 N O

CM 3

CRN 62599-87-5

CMF C9 H19 N2 O2 . 1/2 C6 H8 O4

CM 4

CRN 62599-86-4
CMF C9 H19 N2 O2

CM 5

CRN 764-65-8
CMF C6 H8 O4

-O2C-(CH2)4-CO2-

IC A61K007-06
 CC 62-3 (Essential Oils and Cosmetics)
 IT 62599-89-7P
 RL: PREP (Preparation)
 (preparation of, for hair preps.)

L40 ANSWER 28 OF 28 HCPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1968:30366 HCPLUS Full-text
 DOCUMENT NUMBER: 68:30366
 ORIGINAL REFERENCE NO.: 68:5935a,5938a
 TITLE: Preparation of water-containing, granular, acrylate homopolymers and copolymers
 INVENTOR(S): Miura, Shigeyoshi; Mokuzen, Shizuo
 PATENT ASSIGNEE(S): Toa Gosei Chemical Industry Co., Ltd.
 SOURCE: Jpn. Tokkyo Koho, 4 pp.
 CODEN: JAXXAD
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	

JP 42009656	B4	19670518	JP	196309
				30

<--

AB Arbitrary granular size of H2O-containing polyacrylate can be obtained by suspension polymerization of α, β -ethylenic unsatd. monomer by using a water-soluble initiator and 0.01-5.0% cellulose derivative as a protective colloid in the mixed medium of water with immiscible halogenated olefin and oilphatic,

aromatic, or alicyclic hydrocarbon in which the sp. gr. of the latter two immiscible solvents is not greater than that of the aqueous solution of the acrylate monomer. Thus, 30% Na acrylate 20, trichloroethylene 49.5, toluene 30.5, and cellulose acetate butyrate 0.8 part are mixed and heated at 50° for 3 hrs. after addition of 0.006 part K persulfate. The polymer deposited was collected, filtered, and air-dried for 30 min., giving a granular 30% Na polyacrylate-containing polymer, of 0.5 mm. transparent, pearl-like beads, whose intrinsic viscosity was 0.75 dl./g. in a 2N-NaOH solution

IT 25085-02-3P 25721-79-3P 29755-80-4P

RL: PREP (Preparation)
(manufacture of granular)

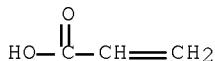
RN 25085-02-3 HCPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 2-propenamide (CA INDEX NAME)

CM 1

CRN 7446-81-3

CMF C3 H4 O2 . Na



● Na

CM 2

CRN 79-06-1

CMF C3 H5 N O



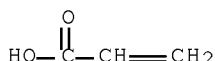
RN 25721-79-3 HCPLUS

CN 2-Propenoic acid, sodium salt (1:1), polymer with 1-ethenyl-2-pyrrolidinone (CA INDEX NAME)

CM 1

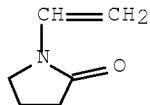
CRN 7446-81-3

CMF C3 H4 O2 . Na

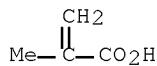


● Na

CM 2

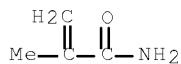
CRN 88-12-0
CMF C6 H9 N ORN 29755-80-4 HCPLUS
CN 2-Propenoic acid, 2-methyl-, sodium salt (1:1), polymer with
2-methyl-2-propenamide (CA INDEX NAME)

CM 1

CRN 5536-61-8
CMF C4 H6 O2 . Na

● Na

CM 2

CRN 79-39-0
CMF C4 H7 N O

INCL 26B011.4
 CC 35 (Synthetic High Polymers)
 IT Acrylic acid, sodium salt, polymer with trichloroethylene
 Ethylene, trichloro-, polymer with sodium acrylate
 RL: USES (Uses)
 (manufacture of granular)
 IT 25085-02-3P 25721-79-3P 29755-80-4P
 RL: PREP (Preparation)
 (manufacture of granular)

=>